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EASTERN ILLINOIS UNIVERSITY

1967 BULLETIN

THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisers, directors, and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the Eastern News and posted on the official bulletin board near the Office of the Dean, Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

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Number 269

July, 1967

Published six times a year (January, April, July, September, October, and November), by Eastern Illinois University, Charleston, Illinois. Entered as second class matter at the Post Office, Charleston, Illinois 61920. Effective date September 1, 1961.

(Printed by the Authority of the State of Illinois)

THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisers, directors, and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the Eastern News and posted on the official bulletin board near the Office of the Dean, Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

Eastern Illinois University Bulletin

NO. 269

JULY, 1967



68th YEAR

ACADEMIC RECORD 1966-67 SESSIONS
ANNOUNCEMENTS FOR 1967-68 SESSIONS

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University Calendar

Eastern Illinois University

1967-1968

FALL QUARTER, 1967

Monday, September 4.....Parents Convocation
 Tuesday, September 5.....Registration Day
 Tuesday, September 5...Last Day to Apply for Fall Quarter Graduation
 Wednesday, September 6.....Classes Begin
 Tuesday, October 17.....Constitution Examination
 Thursday, October 19.....Last Date for Application for Certification
 Friday, Saturday, Monday, Tuesday,
 November 17, 18, 20, 21.....Examinations
 Wednesday, November 22.....Quarter Closes

WINTER QUARTER, 1967-68

Tuesday, November 28.....
 Last Day to Apply for Winter Quarter Graduation
 Wednesday, November 29.....Registration Day
 Thursday, November 30.....Classes Begin
 Wednesday, December 20 (7:00 P.M.).....Christmas Vacation Begins
 Wednesday, January 3 (8:00 A.M.).....Classes Resume
 Wednesday, January 24.....Last Date for Application for Certification
 Tuesday, February 13.....Constitution Examination
 Friday, Saturday, Monday, Tuesday,
 February 23, 24, 26, 27.....Examinations
 Wednesday, February 28.....Quarter Closes

SPRING QUARTER, 1968

Wednesday, March 6.....Registration Day
 Wednesday, March 6.....
 Last Day to Apply for Spring Quarter Graduation
 Tuesday, March 7.....Classes Begin
 Tuesday, April 16.....Constitution Examination
 Friday, April 12.....Good Friday
 Friday, April 19.....Last Date for Application for Certification
 Sunday, May 19.....Commencement
 Monday, Tuesday, Wednesday, Thursday,
 May 20, 21, 22, 23.....Examinations
 Friday, May 24.....Quarter Closes

SUMMER QUARTER, 1968

Monday, June 10.....Registration Day
 Tuesday, June 11.....Classes Begin
 Monday, June 24.....Graduate Registration Day
 Tuesday, June 25.....Graduate Classes Begin
 Friday, June 28...Last Day to Apply for Summer Quarter Graduation
 Thursday, July 4.....Independence Day
 Tuesday, July 16.....Constitution Examination
 Wednesday, July 17.....Last Date for Application for Certification
 Wednesday, Thursday, Friday, Saturday,
 August 14, 15, 16, 17.....Examinations
 Thursday, August 15.....Commencement
 Monday, August 19.....Quarter Closes

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES



APPOINTED MEMBERS

NOBLE J. PUFFER, Chicago.....	1961-67
WILLIAM E. McBRIDE, Chicago.....	1961-67
PAUL STONE, Sullivan.....	1961-67
J. BON HARTLINE, Anna.....	1963-69
ARTHUR J. HIGGINS, Quincy ¹	1963-69
W. I. TAYLOR, Canton.....	1963-69
ROYAL A. STIPES, JR., Champaign.....	1965-71
MORTON H. HOLLINGSWORTH, Joliet.....	1965-71
RICHARD J. NELSON, Evanston.....	1965-71



EX OFFICIO MEMBERS

RAY PAGE

Superintendent of Public Instruction, Springfield

JAMES A. RONAN

Director, Department of Finance, Springfield



OFFICERS

RICHARD J. NELSON, *Chairman*

NOBLE J. PUFFER, *Vice Chairman*

FREDERICK H. McKELVEY, *Executive Officer, Springfield*

¹Died November 28, 1966.

EMERITUS FACULTY

Robert G. Buzzard, Ph.D.....	President Emeritus
Donald R. Alter, Ph.D.....	Professor Emeritus
Harold M. Cavins, Ed.D.....	Professor Emeritus
Ruth H. Cline, Ph.D.....	Professor Emeritus
Charles H. Coleman, Ph.D.....	Professor Emeritus
Earl S. Dickerson, Ed.D.....	Professor Emeritus
Kevin Guinagh, Ph.D.....	Professor Emeritus
Edith C. Haight, Ph.D.....	Professor Emeritus
Bryan Heise, Ph.D.....	Professor Emeritus
Russell H. Landis, D.Ed.....	Professor Emeritus
Elizabeth K. Lawson, Ph.D.....	Professor Emeritus
Sadie O. Morris, Ph.D.....	Professor Emeritus
Hans C. Olsen, Ph.D.....	Professor Emeritus
Emma Reinhardt, Ph.D.....	Professor Emeritus
Ruth Schmalhausen, Ed.D.....	Professor Emeritus
Ernest L. Stover, Ph.D.....	Professor Emeritus
Myrtle Arnold, A.M.....	Assistant Professor Emeritus
Ruth Carman, M.A.....	Assistant Professor Emeritus
Gilbert T. Carson, A.M.....	Assistant Professor Emeritus
Leah Stevens Castle, S.M.....	Assistant Professor Emeritus
Lena B. Ellington, A.M.....	Assistant Professor Emeritus
Harriet Love Hershey, M.S.....	Assistant Professor Emeritus
Ruth Hostetler, A.M.....	Assistant Professor Emeritus
Jessie M. Hunter, M.A.....	Assistant Professor Emeritus
Ica Marks, M.S.....	Assistant Professor Emeritus
Florence E. Reid, M.A.....	Assistant Professor Emeritus
Nannilee Saunders, M.A.....	Assistant Professor Emeritus
Ethel Hanson Stover, A.M.....	Assistant Professor Emeritus
Lottie Leeds, M.S.Ed.....	Instructor Emeritus
Blanche C. Thomas.....	Registrar Emeritus
Raymond R. Gregg, A.M.....	Director of Business Services Emeritus



DISABILITY LEAVE

J. Glenn Ross, Ph.D.....	Professor
Roberta L. Poos, A.M.....	Assistant Professor
Robert B. Thrall, M.S.....	Assistant Professor
David J. Davis, Ph.D.....	Professor

Eastern Illinois University

Charleston



FACULTY, 1966-67



ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

Quincy Doudna.....President (1956¹)
Ph.D., University of Wisconsin; LL.D., Carroll College

Asa M. Ruyle, Jr.....Assistant to the President (1956)
Ed.D., University of Missouri

OFFICERS OF INSTRUCTION

Hobart F. Heller.....Vice President for Instruction (1931)
Ph.D., Columbia University

Lawrence A. Ringenberg.....Dean of the College of Letters
Ph.D., The Ohio State University and Science (1947)

Lawrence R. Nichols.....Chairman, Division of Latin-American Studies
Ph.D., Duke University (1966)

William M. Cloud.....Chairman, Division of Pre-Engineering
Ph.D., University of Wisconsin Studies (1962)

Robert J. Smith.....Chairman, Division of Pre-Medical Studies (1955)
Ph.D., The University of Iowa

Raymond A. Plath.....Chairman, Division of Social Sciences (1946)
Ph.D., University of Wisconsin

Walter M. Scruggs.....Director, Division of Life Sciences (1929)
Ph.D., Harvard University

Martin Schaefer.....Dean of the Faculty for Professional Education (1958)
Ph.D., The University of Iowa

Lavern M. Hamand.....Dean of the Graduate School (1957)
Ph.D., University of Illinois

James F. Giffin.....Director of the School of Business (1947)
Ph.D., Northwestern University

¹Date of joining staff in parentheses

- Harry J. Merigis.....Director of the School of Elementary and
Ed.D., University of Oklahoma Junior High School Teaching (1954)
- Robert G. Shadick.....Assistant Director of the School of Elementary
Ed.D., Teachers College, Columbia University and Junior High
School Teaching (1964)
- Donald G. Gill.....Principal of Laboratory School (1960)
M.Ed., University of Illinois
- Walter S. Lowell.....Director of the School of Health and
Ed.D., Michigan State University Physical Education (1961)
- Tom Katsimpalis.....Director of Athletics (1959)
M.A., University of Illinois
- Mary Ruth Swope.....Director of the School of Home Economics (1962)
Ed.D., Columbia University
- Walter A. Klehm.....Director of the School of Industrial Arts
Ed.D., University of Missouri and Technology (1938)
- Robert Y. Hare.....Director of the School of Music (1965)
Ph.D., The University of Iowa
- Fred J. Bouknight.....Assistant to the Director of the School
Ed.D., Teachers College, Columbia University of Music (1959)
- Roscoe F. Schaupp.....Director of Library Services (1945)
Ph.D., The Ohio State University
- Verne A. Stockman.....Director of Audio-Visual Center (1955)
Ed.D., Michigan State University
- Robert C. Wiseman.....Assistant in Audio-Visual Center (1958)
Ed.D., Indiana University
- Gene W. Scholes.....Assistant in Audio-Visual Center (1966)
Adv.C., University of Illinois

OFFICERS OF ADMINISTRATION

- William H. Zeigel.....Vice President for Administration (1937)
Ph.D., University of Missouri
- Rudolph D. Anfinson.....Dean of Student Personnel Services (1940)
Ph.D., University of Minnesota
- Mary P. Rogers.....Dean of Women (1966)
M.S., Indiana University
- Marie Bevan.....Assistant Dean of Women (1966)
M.S., University of Wisconsin
- Sallie A. Guy.....Residence Hall Counselor (1961)
M.A., Syracuse University
- Jo Anne Stuebe.....Residence Hall Counselor (1962)
M.S. in Ed., Eastern Illinois University
- Judith Strattan.....Residence Hall Counselor (1963)
M.S., Indiana University
- Barbara A. Busch.....Residence Hall Counselor (1964)
M.S. in Ed., Indiana University
- Nancy Tait.....Residence Hall Counselor (1964)
M.S., Northern Illinois University
- Sarah M. Thorburn.....Residence Hall Counselor (1965)
M.A., University of Illinois
- Ann H. Adman.....Residence Hall Counselor (1966)
M.Ed., Wittenberg University
- Leah N. Hartmann.....Residence Hall Counselor (1966)
M.S., Columbia University
- Donald A. Kluge.....Assistant Dean, Student Personnel Services and
M.A., Northwestern University Dean of Men (1957)
- Clark M. Maloney.....Assistant Dean of Men (1966)
M.A., Kent State University

- C. Michael Oliver.....Residence Hall Counselor (1964)
M.S., East Texas State College
- Dwight O. Douglas.....Residence Hall Counselor (1965)
M.S. in Ed., Eastern Illinois University
- Don J. LaRue.....Residence Hall Counselor (1965)
M.A. in Ed., Central Missouri State College
- Clifford L. Rogers.....Residence Hall Counselor (1965)
M.A., University of Detroit
- Jerry Zachary.....Residence Hall Counselor (1966)
Adv.C., University of Illinois
- William D. Miner.....Assistant Dean, Student Personnel Services (1950)
Ph.D., Indiana University
- James D. Corey.....Director of Counseling Center (1964)
Ed.D., Colorado State College
- David T. Baird.....Counselor (1959)
M.S. in Ed., Indiana University
- Ross C. Lyman.....Director of Financial Aids (1961)
B.S., University of Illinois
- Sue C. Sparks.....Assistant Director of Financial Aids (1966)
B.S.Ed., Central Missouri State College
- Ruth H. Gaertner.....Director of Residence Hall Food Services (1947)
M.S., Iowa State College
- Jerry D. Heath.....Director of Health Services and
M.D., University of Illinois University Physician (1956)
- Jack T. Harper.....Assistant, Health Services (1966)
M.D., University of Georgia
- Albert G. Green.....Director of Housing (1966)
Ed.D., University of Southern Mississippi
- Lois M. Kramer.....Assistant Director of Housing (1966)
M.A., Boston University
- Donald A. Rothschild.....Director of Testing Services (1934)
Ph.D., The University of Iowa
- Tymon F. Mitchell.....Director of University Union (1959)
M.S. in Ed., Eastern Illinois University
- Herbert L. Brooks.....Assistant Director of University Union (1966)
B.S. in Ed., Eastern Illinois University
- Glenn D. Williams.....Dean of Student Academic Services and
Ph.D., The Ohio State University Director of Extension (1960)
- Maurice W. Manbeck.....Assistant Dean, Records (1957)
Ph.D., University of Minnesota
- Calvin B. Campbell.....Assistant, Records (1966)
M.A., University of New Mexico
- Samuel J. Taber.....Assistant Dean, Registration and
M.S. in Ed., Southern Illinois University Advisement (1960)
- Calvin B. Campbell.....Assistant, Registration (1966)
M.A., University of New Mexico
- William G. Hooper.....Academic Adviser (1962)
M.S. Ed., Illinois State University
- Robert D. Shields.....Academic Adviser (1965)
M.A., George Peabody College for Teachers
- Sue B. Stoner.....Academic Adviser (1965)
M.S. in Ed., Eastern Illinois University
- Karen A. Hartman.....Academic Adviser (1966)
M.S. in Ed., Southern Illinois University
- Thomas McDevitt.....Academic Adviser (1966)
M.A., Southern Illinois University
- Claud D. Sanders.....Academic Adviser (1966)
M.S. in Ed., Southern Illinois University
- Robert G. Winkleblack.....Academic Adviser (1966)
M.S. in Ed., Eastern Illinois University
- James F. Knott.....Director of Placement (1957)
M.A., Northwestern University (On sabbatical leave 1966-67)

- Robert E. Jones.....Acting Director of Placement (1963)
 M.S., Indiana State University
 James E. Martin.....Substitute Assistant Director of Placement (1966)
 M.A., University of Illinois
 Murray R. Choate.....Director of Admissions and
 M.S.Ed., Southern Illinois University High School Relations (1962)
 Jack H. Brown.....Assistant Director of Admissions and High School
 M.Ed., University of Missouri Relations (1966)
 Harley J. Holt.....Director of Business Services (1963)
 M.S., University of Wisconsin
 Marion L. Zane.....Assistant Director of Business Services (1965)
 M.S. in Ed., Eastern Illinois University
 Everett Alms.....Superintendent of Physical Plant (1965)
 John A. Walstrom.....Technical Director, Data Processing Center (1959)
 M.S. in Ed., Eastern Illinois University

ALUMNI SERVICES, INFORMATION, UNIVERSITY PUBLICATIONS, ADMINISTRATIVE STUDIES

- Kenneth E. Hesler.....Director of Alumni Services
 Ed.M., University of Illinois and Public Relations (1951)
 Harry Read.....Director of Information and University Publications (1964)
 B.S. in Ed., Eastern Illinois University
 Thomas E. Hoppin.....Director of Sports Information (1966)
 Robert H. Weidhuner.....Assistant, Administrative Studies (1966)
 B.S., Southern Illinois University

INSTRUCTIONAL STAFF

- Dewey H. Amos, Ph.D.....University of Illinois
 Associate Professor, Geography. (1965)
 Robert E. Andermann, M.F.A.....University of Illinois
 Instructor, Art. (1964)
 Mary L. Anderson, M.A.....George Peabody College for Teachers
 Assistant Professor, Laboratory School. (1958)
 Leslie Andre, M.A.L.S.....Western Michigan University
 Instructor, Library. (1962)
 Richard D. Andrews, Ph.D.....University of Illinois
 Assistant Professor, Zoology. (1966)
 Charles B. Arzeni, Ph.D.....University of Michigan
 Associate Professor, Botany. (1965)
 D. Ferrel Atkins, Ph.D.....University of Kentucky
 Professor, Mathematics. (1958)
 Alan R. Aulabaugh, Ph.D.....The University of Iowa
 Professor, Music Theory, History and Literature.** (1957)
 Mary Alice Baker, M.A.....Oklahoma University
 Instructor, Speech. (1966)
 Weldon N. Baker, Ph.D.....Columbia University
 Professor, Chemistry. (1958)
 Harold E. Balbach, Ph.D.....University of Illinois
 Assistant Professor, Botany. (1966)
 Wesley E. Ballsrud, M.A.....The University of Iowa
 Assistant Professor, Accounting.* (1964)
 Winifred H. Bally, M.A.....New York University
 Assistant Professor, Physical Education for Women-Education. (1946)
 Roger J. Barry, M.S. in Ed.....Eastern Illinois University
 Instructor, Geography. (1965)
 Ronald J. Basgall, M.S.....Southern Illinois University
 Faculty Assistant, Marketing. (1966)
 Abdul Z. Basti, Ph.D.....University of Colorado
 Assistant Professor, Economics. (1966)
 Jacqueline Bennett, B.A.....Butler University
 Faculty Assistant, Physical Education for Women. (1965)

*Denotes department head.

**Denotes acting department head.

- Clyde W. Biggers, M.A. University of North Carolina
Instructor, Physical Education for Men. (1965)
- Robert W. Bissell, M.S. Indiana University
Instructor, Physical Education for Men. (1966)
- Robert L. Blair, Ph.D. University of Illinois
Professor, English. (1946)
- Richard J. Bloss, Ph.D. University of Pennsylvania
Associate Professor, Political Science. (1963)
- Paul G. Bodine, M.A. Washington University
Assistant Professor, Art. (1966)
- Homer L. Booher, M.A. University of Illinois
Instructor, Speech Correction. (1966)
- Mary L. Bouldin, M.S. University of Illinois
Assistant Professor, Home Economics. (1961)
- Sherry L. Bovinet, M.S. University of Illinois
Instructor, Physical Education for Women. (1966)
- Earl W. Boyd, Ph.D. The University of Iowa
Professor, Instrumental Music.* (1947)
- Marvin L. Breig, Ph.D. University of Oklahoma
Associate Professor, Physics. (1963)
- Michael P. Britton, Ph.D. Purdue University
Associate Professor, Botany. (1966)
- Elmer L. Brooks, Ph.D. Harvard University
Professor, English. (1956)
- Marian L. Buch, M.S. University of Illinois
Instructor, Home Economics. (1966)
- William F. Buckellew, M.S. University of Illinois
Assistant Professor, Laboratory School. (1962)
- John D. Bunker, Ph.D. Georgetown University
Assistant Professor, History. (1965)
- John F. Burke, M.A. University of Notre Dame
Assistant Professor, Economics. (1965)
- Joseph E. Carey, Ed.D. Indiana University
Associate Professor, Laboratory School. (1958)
- Robert A. Carey, P.E.D. Indiana University
Professor, Physical Education for Men. (1953)
- Mary L. Carrico, Adv.C. University of Illinois
Assistant Professor, Laboratory School. (1963)
- William B. Cash, M.A. Kent State University
Instructor, Speech. (1964)
- Gloria Ceide-Echevarria, Ph.D. University of Illinois
Assistant Professor, Foreign Languages. (1965)
- Parviz Chahbazi, Ph.D. Cornell University
Associate Professor, Psychology.* (1965)
- Dayton K. Chase, Ed.D. University of North Dakota
Assistant Professor, Business-Education. (1965)
- Yung Ping Chen, Ph.D. University of Maryland
Associate Professor, Political Science. (1966)
- Frank P. Chizevsky, M.S. Millikin University
Instructor, Physical Education for Men. (1966)
- Kah Kyung Cho, Ph.D. University of Heidelberg
Visiting Lecturer, Philosophy. (1966)
- Charles L. Christmas, Ph.D. University of Georgia
Associate Professor, Mathematics. (1965)
- William M. Cloud, Ph.D. University of Wisconsin
Professor, Physics. (1962)
- H. Logan Cobb, Ph.D. University of Missouri
Associate Professor, Foreign Languages. (1963)
- Harold G. Coe, Ph.D. Purdue University
Assistant Professor, Psychology. (1965)

- George M. Colby, M.A. University of Chicago
Assistant Professor, English. (1962)
- Wayne D. Coleman, D.Ed. Colorado State College
Assistant Professor, Industrial Arts and Technology. (1957)
- Joseph T. Connelly, M.Ed. University of Illinois
Assistant Professor, Political Science. (1958)
- Lewis H. Coon, Ed.D. Oklahoma State University
Associate Professor, Mathematics. (1965)
- George K. Cooper, Ph.D. University of Michigan
Professor, Business Education and Secretarial Studies.* (1962)
- Joanne Cooper, M.A. University of Washington
Assistant Professor, English. (1963)
- James D. Corey, Ed.D. Colorado State College
Associate Professor, Educational Psychology and Guidance. (1964)
- Calvin Countryman, D.Ed. Pennsylvania State University
Professor, Art.* (1945)
- Velma V. Cox, M.Ed. University of Missouri
Assistant Professor, Laboratory School. (1948)
- Delmar Crabill, M.S. Purdue University
Assistant Professor, Mathematics. (1963)
- Francis H. Craig, M.S. in Ed. Southern Illinois University
Assistant Professor, Laboratory School. (On sabbatical leave 1966-67)
(1957)
- William J. Crane, Ph.D. Yale University
Associate Professor, Educational Psychology and Guidance. (1961)
- Richard L. Crouse, M.A. University of Wisconsin
Assistant Professor, Foreign Languages. (1966)
- George L. Cunningham, Ph.D. University of California, Berkeley
Professor, Chemistry. (1961)
- Carleton E. Curran, Ph.D. University of Wisconsin
Associate Professor, History. (1966)
- Steven H. Dale, M.Ed. University of Oklahoma
Assistant Professor, Sociology-Anthropology. (1965)
- Rex V. Darling, P.E.Dir. Indiana University
Assistant Professor, Physical Education for Men. (1945)
- M. Marise Daves, Ed.D. New York University
Associate Professor, Physical Education for Women. (1955)
- Howard R. Delaney, M.A. Southern Illinois University
Assistant Professor, Sociology-Anthropology. (1965)
- Garret W. DeRuiter, M.F.A. Southern Illinois University
Instructor, Art. (1965)
- Bernard J. Derwort, Ph.D. St. Louis University
Professor, Mathematics. (1964)
- Helen Devinney, A.M. Columbia University
Assistant Professor, Home Economics. (1943)
- Alphonso J. DiPietro, Ph.D. George Peabody College for Teachers
Professor, Mathematics. (1959)
- Donald Dolton, M.A. Oklahoma State University
Assistant Professor, English. (1966)
- Earl Doughty, Ph.D. Southern Illinois University
Assistant Professor, Laboratory School. (1963)
- Dale D. Downs, Adv.C. University of Illinois
Assistant Professor, Laboratory School. (1963)
- Martha I. Drew, M.Ed. University of Illinois
Assistant Professor, Management. (1958)
- Leonard Durham, Ph.D. University of Illinois
Professor, Zoology. (1955)
- Genevra Dvorak, M.S. in Ed. Eastern Illinois University
Instructor, English. (1964)
- Hannah N. Eads, M.S. in Ed. Eastern Illinois University
Instructor, Laboratory School. (1961)

- K. C. Eapen, Ph.D. University of Colorado
Assistant Professor, English (1965)
- John Ebinger, Ph.D. Yale University
Assistant Professor, Botany. (1963)
- Arthur U. Edwards, Ph.D. The University of Iowa
Professor, Faculty for Professional Education. (1937)
- Ronald E. Edwards, M.Ed. University of Missouri
Instructor, Laboratory School. (1964)
- Snowden L. Eisenhour, Ph.D. University of Illinois
Associate Professor, Physics. (1961)
- Gladys W. Ekeberg, Ph.D. University of Wisconsin
Professor, English. (1945)
- Margaret L. Ekstrand, A.M.L.S. University of Michigan
Assistant Professor, Library (1942)
- E. Duane Elbert, Ph.D. Indiana University
Assistant Professor, History. (1966)
- Aline R. Elliott, M.S. The University of Iowa
Assistant Professor, Physical Education for Women. (1944)
- Charles A. Elliott, Ed.D. University of Missouri
Professor, Industrial Arts and Technology. (1945)
- Jerry W. Ellis, Ph.D. Oklahoma State University
Assistant Professor, Chemistry. (1966)
- Walter L. Elmore, M.A. in Ed. University of Kentucky
Assistant Professor, Physical Education for Men-Education. (1948)
- Carl E. Emmerich, M.A. University of North Dakota
Assistant Professor, Art-Education. (1962)
- David M. Emmons, M.A. University of Colorado
Assistant Professor, History. (1966)
- Ruth Erckmann, M.A. University of South Dakota
Assistant Professor, Mathematics. (1963)
- Clifford H. Erwin, D.Ed. Indiana University
Associate Professor, Industrial Arts-Education. (On sabbatical leave
winter and spring quarters, 1966-67) (1956)
- Robert J. Eudeikis, M.S. in Ed. Illinois State University
Assistant Professor, Physical Education for Men. (1962)
- Clifford L. Fagan, Ph.D. The University of Iowa
Professor, Marketing.* (1949)
- John R. Faust, Ph.D. University of North Carolina
Associate Professor, Political Science. (1966)
- Audrey Fedor, A.B.
Faculty Assistant, Library. (Part-Time) (1954)
- Max B. Ferguson, Ph.D. The University of Iowa
Professor, Zoology. (On sabbatical leave winter and spring quarters,
1966-67) (1950)
- Gerald D. Fines, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Management. (1966)
- M. Lorraine Flower, Ph.D. Wayne State University
Associate Professor, Physical Education for Women. (1965)
- James M. Flugrath, Ph.D. Wayne State University
Assistant Professor, Speech Correction. (1965)
- C. Dan Foote, Ph.D. University of Illinois
Assistant Professor, Chemistry. (1965)
- John P. Ford, Ph.D. Ohio State University
Assistant Professor, Geography. (1966)
- Melvin O. Foreman, Ph.D. University of Chicago
Professor, Chemistry. (1946)
- Paul Foreman, M.S. University of Illinois
Assistant Professor, Zoology. (Winter and Spring Quarters) (1966)
- Clifton N. Foster, Ed.D. University of Nebraska
Assistant Professor, Faculty for Professional Education. (1966)

- Delbert D. Foust, Adv.C.....University of Illinois
Assistant Professor, Laboratory School. (1964)
- Duane K. Fowler, M.S.....Kansas State University
Instructor, Physics. (1965)
- Ewell W. Fowler, Ed.D.....University of Missouri
Professor, Industrial Arts and Technology. (1941)
- Frank A. Fraembs, M.S.....University of Illinois
Assistant Professor, Zoology. (1964)
- Betty J. Fuller, M.S.....Alabama College
Instructor, Physical Education for Women. (1965)
- Richard C. Funk, M.S.....Colorado State College
Assistant Professor, Zoology. (1965)
- E. G. Gabbard, Ph.D.....The University of Iowa
Professor, Theater Arts.* (1947)
- Curtis R. Garner, Ed.D.....North Texas State College
Professor, Administration and Supervision. (1955)
- Donald P. Garner, Ph.D.....Wayne State University
Professor, Speech.* (1963)
- Bessie Gerstenberger, M.A.....The University of Iowa
Instructor, Physical Education for Women. (1966)
- Luther R. Gibson, B.S. in Ed.....Eastern Illinois University
Faculty Assistant, Physics. (On leave 1966-67) (1959)
- James F. Giffin, Ph.D.....Northwestern University
Professor, School of Business. (1947)
- Michael A. Goodrich, Ph.D.....Pennsylvania State University
Associate Professor, Zoology. (1964)
- Timothy D. Gover, M.S.....University of Illinois
Assistant Professor, Marketing. (1963)
- Mignon G. Grabb, M.S.L.S.....University of Illinois
Instructor, Laboratory School. (1966)
- Louis M. Grado, Ph.D.....The University of Iowa
Associate Professor, Faculty for Professional Education. (1955)
- Helen R. Graves, M.S.....University of Wisconsin
Assistant Professor, Business Education and Secretarial Studies. (1966)
- Grant Gray, Ph.D.....University of South Dakota
Assistant Professor, Botany- Zoology-Education. (1966)
- Carl K. Green, Ed.D.....University of Houston
Associate Professor, Educational Psychology and Guidance. (1958)
- Marguerite E. Green, M.P.H.....University of Minnesota
Assistant Professor, Health Education. (1958)
- Norma C. Green, M.Ed.....University of Southern Mississippi
Instructor, Physical Education for Women. (1966)
- William E. Green, Ph.D.....Ohio State University
Professor, Management.* (1966)
- Charles R. Gregg, M.Ed.....University of Illinois
Instructor, Business-Education. (1966)
- Johanne F. Grewell, M.S.L.S.....University of Illinois
Instructor, Library. (1966)
- Raymond Griffin, D.Ed.....Colorado State College
Associate Professor, Laboratory School. (1958)
- Jerry Griffith, Ph.D.....University of Illinois
Associate Professor, Speech Correction. (1966)
- Waldo Grigoroff, M.S. in Ed.....University of Illinois
Assistant Professor, Laboratory. (1961)
- Dennis C. Gross, M.S.Ed.....Southern Illinois University
Instructor, Accounting (1966)
- William H. Groves, Ph.D.....The University of Iowa
Professor, Physical Education for Men. (1951)
- Paul O. Gurholt, M.A.....University of Wisconsin
Assistant Professor, Laboratory School. (1955)

- Ken E. Hadwiger, Ph.D. University of Oklahoma
Assistant Professor, Speech. (1964)
- Lavern M. Hamand, Ph.D. University of Illinois
Professor, History. (1957)
- Julian J. Hamerski, Ph.D. University of the Pacific
Associate Professor, Chemistry. (1963)
- Robert R. Hancock, M.S. Southern Illinois University
Assistant Professor, Mathematics-Education. (1965)
- Robert Y. Hare, Ph.D. The University of Iowa
Professor, School of Music. (1965)
- Dorothy M. Hart, Ph.D. The University of Iowa
Professor, Physical Education for Women. (1947)
- Betty R. Hartbank, M.S. University of Illinois
Assistant Professor, Library. (1956)
- Fred Hattabaugh, M.S. in Ed. Eastern Illinois University
Instructor, Laboratory School. (1965)
- Helen L. Haughton, M.S. University of Illinois
Assistant Professor, Home Economics. (1956)
- Frank H. Hedges, M.S. University of Illinois
Instructor, Zoology. (1965)
- Giles L. Henderson, M.S. Montana State University
Instructor, Chemistry. (1966)
- Robert Hennings, Ph.D. University of California, Berkeley
Assistant Professor, History. (1962)
- Julia M. Henry, M.A. The University of Iowa
Instructor, English. (1966)
- James A. Herauf, M.S. Southern Illinois University
Instructor, Health Education. (1965)
- Billy J. Heyduck, M.Ed. University of Illinois
Assistant Professor, Art. (1966)
- George M. Hicks, M.M. Louisiana State University
Assistant Professor, Vocal Music. (1966)
- Gretchen Hieronymus, M.A. University of Illinois
Assistant Professor, Laboratory School. (1960)
- Albert R. Hinson, M.F.A. Miami University
Instructor, Art. (1965)
- Dan M. Hockman, M.S. in Ed. Eastern Illinois University
Instructor, History-Social Studies-Education
- Arnold J. Hoffman, M.S. University of Illinois
Assistant Professor, Physical Science-Education. (1943)
- Arthur C. Hoffman, M.B.A. University of Wisconsin
Assistant Professor, Accounting. (1966)
- John C. Hoffman, M.A. The University of Iowa
Instructor, English. (1966)
- Bertrand P. Holley, M.A. Northwestern University
Assistant Professor, Management. (1946)
- Janet M. Hooks, Ph.D. University of Illinois
Assistant Professor, Economics. (1963)
- Richard L. Hooser, M.S. University of Illinois
Assistant Professor, Laboratory School. (1965)
- Jon J. Hopkins, Ph.D. Pennsylvania State University
Associate Professor, Speech. (1956)
- Judith Ann Hopkins, B.A. Butler University
Faculty Assistant, Physical Education for Women. (1965)
- Stephen M. Horak, Ph.D. University of Erlangen
Assistant Professor, History. (1965)
- Nai-chao-Hsu, Ph.D. Washington University
Associate Professor, Mathematics. (1966)

- Ralph R. Hunt, M.A. Indiana University
Instructor, English. (1966)
- John G. Husa, Ph.D. University of Chicago
Assistant Professor, Botany.** (1966)
- Robert W. Hussey, D.Ed. Colorado State College
Associate Professor, Physical Education for Men. (1966)
- Virginia W. Hyett, A.M. University of Missouri
Assistant Professor, Art. (1944)
- Bill V. Isom, M.S. in Ed. Southern Illinois University
Assistant Professor, Library. (1964)
- Ann E. Jackson, D.Ed. Arizona State University
Associate Professor, Laboratory School. (1958)
- Richard H. Jacoby, M.S. University of Illinois
Instructor, Instrumental Music. (1964)
- John K. Jeglum, M.S. University of Wisconsin
Assistant Professor, Botany. (On leave 1966-67) (1965)
- Harold S. Jensen, M.S. Brigham Young University
Assistant Professor, Accounting. (1966)
- June Johnson, M.M. University of Kansas
Assistant Professor, Vocal Music. (1960)
- Vernon E. Johnson, Ph.D. George Peabody College for Teachers
Associate Professor, English. (1965)
- George H. Jones, Ph.D. Oxford University
Associate Professor, History. (1966)
- Robert W. Jordan, Ph.D. Washington University
Assistant Professor, Chemistry. (1966)
- Elaine Jorgenson, A.M. Colorado State College
Assistant Professor, Home Economics. (On leave 1966-67) (1961)
- Tom Katsimpalis, M.A. University of Illinois
Assistant Professor, Physical Education for Men. (1959)
- John H. Keiser, Ph.D. Northwestern University
Assistant Professor, History. (1965)
- John J. Kelleher, Ph.D. University of Pittsburgh
Associate Professor, English. (1964)
- Stuart Y. Keller, M.S. New Mexico Highlands University
Instructor, Physics. (1964)
- E. Chenault Kelly, Ed.D. New York University
Professor, English. (1946)
- Leo L. Kelly, Ph.D. Purdue University
Associate Professor, Foreign Languages. (1965)
- William J. Keppler, Ph.D. University of Illinois
Assistant Professor, Zoology. (1965)
- Jason J. Kesler, B.A. DePauw University
Assistant Professor, Economics. (1965)
- Rhoderick E. Key, M.M.Ed. Southern Illinois University
Instructor, Laboratory School. (1966)
- Gary E. Kilgos, M.S. Southern Illinois University
Instructor, Marketing. (1966)
- Choong Han Kim, Ph.D. Rutgers University
Assistant Professor, Library. (1965)
- Franklin D. Kirby, M.A. University of Arkansas
Assistant Professor, Psychology. (1966)
- Paul F. Kirby, Ph.D. University of Pittsburgh
Associate Professor, Foreign Languages. (1964)
- Walter A. Klehm, Ed.D. University of Missouri
Professor, Industrial Arts and Technology.* (1938)
- Judd Kline, Ph.D. University of Minnesota
Professor, English. (1948)
- Henry Knapp, Ph.D. University of Nebraska
Associate Professor, Faculty for Professional Education. (1965)

- Edna Kniskern, M.S. in Ed. Eastern Illinois University
Instructor, Botany. (1954)
- Verne B. Kniskern, Ph.D. University of Michigan
Professor, Zoology. (1950)
- Cary I. Knoop, M.F.A. University of Illinois
Assistant Professor, Art. (1953)
- Raymond L. Koch, M.A. University of Minnesota
Assistant Professor, History. (1966)
- Douglas Koertge, M.S. in Ed. Eastern Illinois University
Instructor, Theatre Arts. (1966)
- Lloyd L. Koontz, M.A. University of Arkansas
Assistant Professor, Mathematics. (1963)
- Eugene G. Krehbiel, Ph.D. Kansas State University
Assistant Professor, Zoology. (1963)
- James W. Krehbiel, Ph.D. Indiana University
Assistant Professor, Music Theory, History and Literature. (1965)
- June M. Krutza, Ph.D. Ohio State University
Assistant Professor, Art. (1952)
- Carol H. Kuo, M.A. University of Pittsburgh
Instructor, English. (1966)
- Oren F. Lackey, M.S. University of Illinois
Assistant Professor, Biological Sciences-Education. (1963)
- Jane Lahey, M.S.Ed. University of Illinois
Assistant Professor, Management. (1957)
- Thomas H. Lahey, Ed.D. University of Virginia
Associate Professor, Laboratory School-Psychology. (1966)
- Jon M. Laible, Ph.D. University of Illinois
Assistant Professor, Mathematics. (Part Time) (1964)
- Floyd A. Landsaw, M.S. in Ed. Eastern Illinois University
Assistant Professor, Laboratory School. (1965)
- Harry R. Larson, Ed.D. Colorado State College
Assistant Professor, Faculty for Professional Education. (1960)
- Karen J. Larvick, M.M. University of Wisconsin
Instructor, Keyboard Music. (1966)
- Herbert Lasky, Ph.D. New York University
Assistant Professor, History. (1966)
- Richard W. Lawson, M.S.L.S. Western Reserve University
Instructor, Library. (On leave 1966-67) (1964)
- Ronald M. Leathers, M.S. Indiana State University
Instructor, Speech-English-Education. (1965)
- John W. LeDuc, M.S. University of Utah
Instructor, Mathematics. (1965)
- Ruby H. J. Lee, M.L.S. Louisiana State University
Instructor, Library. (1965)
- Glenn Q. Leffer, Ph.D. Indiana University
Professor, Physics.* (1946)
- Roland Leipholz, Ed.D. University of Michigan
Associate Professor, Art. (1955)
- Jerome B. Long, Ph.D. Fordham University
Assistant Professor, Philosophy. (1966)
- Arthur J. Looby, Ed.D. University of Missouri
Associate Professor, Psychology. (1959)
- Walter S. Lowell, Ed.D. Michigan State University
Associate Professor, Physical Education for Men. (1961)
- Fred W. MacLaren, Ph.D. University of Oklahoma
Assistant Professor, School of Elementary and Junior High School
Teaching (1965)
- John N. Maharg, M.M.E. Oberlin College
Assistant Professor, Vocal Music.* (1958)
- Lawson F. Marcy, Ph.D. The Ohio State University
Professor, Chemistry. (1944)

- Elwyn L. Martin, Ph.D. University of Michigan
Associate Professor, Geography. (1956)
- Jacinto C. Martinez, M.S. East Texas State University
Substitute Instructor, Zoology. (1966)
- John W. Masley, D.Ed. Pennsylvania State University
Professor, Physical Education for Men. (On sabbatical leave winter and
spring quarters 1966-67) (1952)
- Merrillie Mather, Ph.D. Boston University
Associate Professor, English. (1951)
- Gerhard C. Matzner, Ph.D. Cornell University
Professor, Administration and Supervision. (On sabbatical leave winter
and spring quarters 1966-67) (1955)
- David J. Maurer, Ph.D. The Ohio State University
Assistant Professor, History. (1962)
- Paul W. Mausel, Ph.D. University of North Carolina
Assistant Professor, Geography. (1965)
- Bessie A. Maxey, M.E. University of Illinois
Visiting Lecturer, Laboratory School. (1966)
- Jaime A. Maya, M.S. University of Arizona
Assistant Professor, Zoology. (1966)
- Paul R. McBrearty, M.A. San Francisco State College
Instructor, English. (1966)
- William J. McCabe, M.A. The University of Iowa
Assistant Professor, Physical Education for Men. (1962)
- Beryl F. McClerren, Ph.D. Southern Illinois University
Associate Professor, Speech. (1964)
- Frances W. McColl, M.A. Columbia University
Assistant Professor, English. (1957)
- Glenn A. McConkey, Ph.D. The University of Iowa
Professor, Economics.* (1958)
- Walter H. McDonald, Ph.D. University of Illinois
Associate Professor, Geography. (1958)
- Donald L. McKee, M.A. University of Illinois
Instructor, Laboratory School. (1961)
- F. Raymond McKenna, Ed.D. Harvard University
Professor, Faculty for Professional Education. (1953)
- Jerry McRoberts, M.A. University of Illinois
Instructor, Art. (1963)
- Robert E. Meier, M.S. Southern Illinois University
Instructor, Management. (1964)
- W. Kay Metcalf, M.S. in Ed. Eastern Illinois University
Substitute Instructor, Physical Education for Women. (1965)
- Roy A. Meyerholtz, M.A. University of Illinois
Assistant Professor, Mathematics. (1961)
- Elizabeth Michael, Ph.D. Université Laval
Professor, Foreign Languages. (1930)
- Martin M. Miess, Ph.D. Universitaet Innsbruck
Professor, Foreign Languages.* (On sabbatical leave spring quarter
1967) (1956)
- Drayton G. Miller, M.A. Washington University
Instructor, Foreign Languages. (1964)
- Frank A. Miller, B.A. Swarthmore College
Assistant Professor, History. (1965)
- William D. Miller, M.A. University of Illinois
Instructor, English. (On leave 1966-67) (1963)
- L. E. Miner, M.A. Michigan State University
Assistant Professor, Speech Correction. (1963)
- William D. Miner, Ph.D. Indiana University
Professor, History. (1950)
- Talaat K. Mitri, M.S. Oregon State University
Substitute Assistant Professor, Zoology. (1964)

- Al R. Moldroski, M.A. Michigan State University
Instructor, Art. (1963)
- Donald L. Moler, Ph.D. University of Kansas
Professor, Educational Psychology and Guidance.* (1951)
- Helen M. Moody, M.S. Springfield College
Instructor, Physical Education for Women. (On leave 1966-67) (1962)
- John H. Moore, M.A. Michigan State University
Assistant Professor, Sociology-Anthropology. (1965)
- Richard L. Morfit, Ph.D. Université Laval
Associate Professor, Foreign Languages. (1963)
- Mildred D. Morgan, M.A. Columbia University
Assistant Professor, Laboratory School. (1946)
- Ahmad Murad, Ph.D. University of Wisconsin
Associate Professor, Economics. (1963)
- Louise Murray, Ph.D. Northwestern University
Professor, Laboratory School. (1951)
- Jack Murry, Ed.M. University of Illinois
Instructor, Business Education and Secretarial Studies. (1965)
- Jagdish L. Nanda, Ph.D. Indiana University
Associate Professor, Mathematics. (1964)
- Herbert P. Neitzel, M.A. Montana State University
Instructor, Art. (1964)
- Gerald Nestel, M.S. in Ed. Southern Illinois University
Substitute Instructor, Industrial Arts and Technology. (1963)
- Ben Newcomb, M.A. Eastern New Mexico University
Instructor, Physical Education for Men. (1965)
- Lawrence Nichols, Ph.D. Duke University
Associate Professor, History. (1962)
- Phyllis D. Nies, M.S. University of Illinois
Instructor, Physical Education for Women. (1965)
- Janet Norberg, Ph.D. The University of Iowa
Associate Professor, Speech. (1963)
- Troy E. Nunis, Ph.D. Indiana University
Assistant Professor, Psychology. (1966)
- Maynard O'Brien, Ed.D. University of Illinois
Professor, Physical Education for Men.* (1946)
- Ivan Olson, Ed.D. University of Michigan
Assistant Professor, Music Education. (1964)
- Geraldina Ortiz-Muniz, Ph.D. Florida State University
Associate Professor, Foreign Languages. (1962)
- Maria M. Ovcharenko, Ph.D. Charles University
Associate Professor, Foreign Languages. (1964)
- Paul D. Overton, Ed.D. Colorado State College
Assistant Professor, Faculty for Professional Education. (1962)
- Ronald Paap, A.M. Colorado State College
Instructor, Physical Education for Men. (1963)
- Raymond F. Padovan, M.S. Southern Illinois University
Instructor, Physical Education for Men. (1966)
- Francis W. Palmer, Ph.D. The University of Iowa
Professor, English. (1945)
- Guy S. Parcel, M.S. Indiana University
Instructor, Health Education. (1966)
- J. Robert Pence, Ed.D. University of Illinois
Associate Professor, Music Education.* (1951)
- Stuart L. Penn, Ph.D. Yale University
Professor, Philosophy.* (1960)
- Harry E. Peterka, Ph.D. University of Kansas
Professor, Zoology. (On sabbatical leave winter and spring quarters,
1966-67) (1947)

- Nicholas C. Petridis, Ph.D. University of Chicago
Associate Professor, Mathematics. (1966)
- Charles E. Pettypool, M.A. The Ohio State University
Assistant Professor, Mathematics-Education. (On leave 1966-67) (1957)
- Harris E. Phipps, Ph.D. University of Illinois
Professor, Chemistry.* (1931)
- Gerald Pierson, M.S. in Ed. Eastern Illinois University
Instructor, History-Social Science-Education. (1963)
- Harold O. Pinther, M.S. University of Wisconsin
Assistant Professor, Physical Education for Men. (1954)
- Raymond A. Plath, Ph.D. University of Wisconsin
Professor, Economics. (1946)
- Frances M. Pollard, Ph.D. Western Reserve University
Associate Professor, Library. (1963)
- Dalias A. Price, Ph.D. University of Wisconsin
Professor, Geography.* (1958)
- Van D. Psimitis, M.S. Southern Illinois University
Instructor, Management. (1964)
- Ruth S. Queary, M.S. in Ed. Eastern Illinois University
Assistant Professor, Mathematics. (1961)
- Anola E. Radtke, M.M. Indiana University
Assistant Professor, Laboratory School. (1964)
- Hugh C. Rawls, Ph.D. University of Alabama
Professor, Zoology. (1956)
- Mary Jo Read, Ph.D. University of Wisconsin
Professor, Geography. (1965)
- Donald B. Reed, M.A. University of California, Los Angeles
Instructor, Instrumental Music. (1966)
- Jack J. Richardson, Ph.D. Southern Illinois University
Associate Professor, Health Education.* (1965)
- Rachael G. Richardson, M.S. in Ed. Eastern Illinois University
Instructor, English. (1963)
- Bill T. Ridgeway, Ph.D. University of Missouri
Assistant Professor, Zoology. (1966)
- Harland A. Riebe, Ed.D. University of Colorado
Professor, Health Education. (1950)
- Garland T. Riegel, Ph.D. University of Illinois
Professor, Zoology.* (1948)
- Helen J. Riley, M.S. Illinois State University
Assistant Professor, Physical Education for Women. (1965)
- Lawrence A. Ringenberg, Ph.D. The Ohio State University
Professor, Mathematics.* (1947)
- William G. Riordan, Ph.D. Western Reserve University
Associate Professor, Physical Education for Men. (1964)
- Edith Rittenhouse, M.S. University of Wisconsin
Instructor, Home Economics. (1966)
- John L. Roberts, Ph.D. The University of Iowa
Associate Professor, Business Education and Secretarial Studies. (1965)
- James Robertson, Ed.D. University of Illinois
Associate Professor, Music-Education. (1956)
- John H. Robertson, M.A. Western Michigan University
Instructor, Speech Correction. (1962)
- Kathryn W. Robertson, M.S. in Ed. Eastern Illinois University
Instructor, English. (1965)
- E. Ann Roderick, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Library. (Part-Time) (1966)
- Roger D. Roderick, M.S. University of Illinois
Instructor, Economics (1965)

- Donald L. Rogers, M.S. _____ Syracuse University
Assistant Professor, Laboratory School. (1963)
- George W. Rommel, Ph.D. _____ Northwestern University
Professor, English. (1953)
- Jerome J. Rooke, M.S. _____ Northern Illinois University
Assistant Professor, Accounting. (1965)
- Donald A. Rothschild, Ph.D. _____ The University of Iowa
Professor, Psychology. (1934)
- Al G. Rundle, M.A. _____ University of Denver
Assistant Professor, Speech. (1963)
- Charles G. Russell, M.A. _____ Southern Illinois University
Instructor, Speech. (1965)
- Betty G. Ruyle, M.A. _____ East Carolina College
Substitute Instructor, Laboratory School. (1965)
- George P. Sanders, M.M. _____ Yale University
Instructor, Keyboard Music. (1964)
- Martin Schaefer, Ph.D. _____ The University of Iowa
Professor, Faculty for Professional Education. (1958)
- Lahron H. Schenke, Ed.D. _____ Teachers College, Columbia University
Associate Professor, Faculty for Professional Education. (1963)
- Raymond J. Schneider, Ph.D. _____ University of Michigan
Associate Professor, Theatre Arts. (1961)
- John J. Schuster, M.S. _____ University of Illinois
Assistant Professor, Instrumental Music. (1964)
- Eugene Schweitzer, Ph.D. _____ University of Rochester
Assistant Professor, Music Theory, History and Literature. (1963)
- Mary E. Scott, M.S. in L.S. _____ Columbia University
Assistant Professor, Library. (1948)
- Walter M. Scruggs, Ph.D. _____ Harvard University
Professor, Zoology. (1929)
- Robin Seidenberg, M.A. _____ University of Chicago
Instructor, Foreign Languages. (1966)
- Grace Seiler, Ph.D. _____ University of Missouri
Professor, English. (1966)
- Phillip M. Settle, M.F.A. _____ University of Illinois
Assistant Professor, Laboratory School. (1957)
- Carl N. Sexton, P.E.D. _____ Indiana University
Associate Professor, Health Education. (1966)
- Glenn H. Seymour, Ph.D. _____ University of Illinois
Professor, History. (On sabbatical leave fall quarter, 1966) (1929)
- Terry R. Shepherd, M.S. in Ed. _____ Eastern Illinois University
Instructor, Laboratory School. (1966)
- Robert V. Shuff, Ph.D. _____ University of Minnesota
Associate Professor, Administration and Supervision.* (1964)
- Carl E. Shull, Ph.D. _____ The Ohio State University
Professor, Art. (1947)
- Henry Silverstein, M.L.S., M.A. _____ New York University
Assistant Professor, English. (1965)
- Calvin N. Smith, Ph.D. _____ Purdue University
Assistant Professor, Speech. (1965)
- Catherine A. Smith, D.Mus. _____ Florida State University
Professor, Keyboard Music.* (1949)
- Norman D. Smith, M.S.T. _____ University of Florida
Instructor, Chemistry. (1965)
- P. Scott Smith, Ph.D. _____ Cornell University
Professor, Physics. (1953)
- Richard L. Smith, Ph.D. _____ University of Texas
Assistant Professor, Botany. (1965)
- Robert J. Smith, Ph.D. _____ The University of Iowa
Professor, Chemistry. (1955)

- V. Carolyn Smith, M.N. Western Reserve University
Assistant Professor, Health Education. (1952)
- LeeAnna J. Smock, A.M. University of Kansas
Assistant Professor, Library. (1944)
- Barbara M. Snow, Ed.D. Pennsylvania State University
Professor, Physical Education for Women.* (1964)
- Margaret Soderberg, Ph.D. Washington University
Assistant Professor, Political Science. (1963)
- Robert B. Sonderman, Ed.D. University of Missouri
Professor, Industrial Arts and Technology. (1956)
- Roland D. Spaniol, M.S. in Ed. Illinois State University
Assistant Professor, Management. (1960)
- Kenneth J. Spencley, Ph.D. University of Illinois
Assistant Professor, English. (1966)
- Henry A. Stackhouse, Ed.D. University of Missouri
Associate Professor, Psychology. (1960)
- Jane Stackhouse, B.S. University of Arkansas
Faculty Assistant, Library. (Part-Time) (1966)
- Laris A. Stalker, M.A. University of Michigan
Instructor, Laboratory School. (1963)
- Ray V. Stapp, D.Ed. Pennsylvania State University
Associate Professor, Art. (1964)
- Helen Starck, M.Ed. Colorado State College
Assistant Professor, Home Economics. (1964)
- Sidney R. Steele, Ph.D. The Ohio State University
Professor, Chemistry. (1947)
- M. Lee Steinmetz, Ph.D. Brown University
Associate Professor, English. (1959)
- Robert W. Sterling, M.S. in Ed. Eastern Illinois University
Assistant Professor, History. (1956)
- Verne A. Stockman, Ed.D. Michigan State University
Professor, Faculty for Professional Education. (1955)
- Gayle G. Strader, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Laboratory School. (1965)
- Clifford E. Strandberg, Ed.D. Texas A & M University
Associate Professor, Industrial Arts and Technology. (1965)
- Russell Strange, Ph.D.¹ University of Maryland
Associate Professor, Political Science.* (1966)
- Marian H. Stromquist, Ed.D. University of Kansas
Associate Professor, Faculty for Professional Education. (1966)
- Alexander J. Stupple, M.A. Northwestern University
Instructor, English. (1966)
- Frieda S. M. Stute, Ph.D. University of Illinois
Associate Professor, Sociology-Anthropology. (1966)
- Robert N. Sullivan, M.A. Murray State College
Instructor, Business Education and Secretarial Studies. (1964)
- Francis E. Summers, M.S. in Ed. Southern Illinois University
Instructor, School of Elementary and Junior High School Teaching (1965)
- Jerry A. Summers, M.S. in Ed. Southern Illinois University
Substitute Instructor, Laboratory School. (1966)
- Charles Switzer, Ph.D. Michigan State University
Associate Professor, English. (1966)
- Donald Swope, M.S. Columbia University
Instructor, Library. (1964)
- Mary Ruth Swope, Ed.D. Columbia University
Professor, Home Economics.* (1962)
- P. Rex Syndergaard, Ph.D. St. Louis University
Professor, History.* (1956)
- Regina J. Szar, M.A. The University of Iowa
Instructor, English. (1966)

¹Died October 4, 1966.

- Henry A. Taitt, M.S. University of Delaware
Assistant Professor, Physics. (1965)
- Ellwood R. Tame, Ph.D. University of Denver
Associate Professor, Speech. (1965)
- Virginia Tate, M.Ed. University of Missouri
Assistant Professor, Laboratory School. (1952)
- Frank S. Taylor, M.A. Boston University
Assistant Professor, Philosophy. (1965)
- Richard L. Taylor, M.S. in L.S. University of Illinois
Assistant Professor, Library.† (1961)
- Francis L. Teller, M.A. Teachers College, Columbia University
Assistant Professor, Physical Education for Men. (1963)
- Neil A. Thorburn, Ph.D. Northwestern University
Assistant Professor, History. (1965)
- Daniel E. Thornburgh, M.A. The University of Iowa
Assistant Professor, English. (1959)
- Wayne L. Thurman, Ph.D. Purdue University
Professor, Speech Correction.* (1953)
- Hiram F. Thut, Ph.D. The Ohio State University
Professor, Botany. (1932)
- Robert C. Timblin, M.A. University of Illinois
Assistant Professor, Sociology-Anthropology. (1960)
- Donald F. Tingley, Ph.D. University of Illinois
Professor, History. (On sabbatical leave winter and spring quarters,
1966-67) (1953)
- Donald C. Todd, M.M. Northwestern University
Assistant Professor, Instrumental Music. (1957)
- Lynn E. Trank, Ph.D. The Ohio State University
Professor, Art. (1952)
- Charles Tucker, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Chemistry. (1955)
- Curtis J. Twenter, Ed.D. University of Missouri
Substitute Assistant Professor, Physical Education for Men. (1964)
- Marie N. Tycer, Ph.D. The Ohio State University
Associate Professor, English. (1961)
- David Ulfeng, M.S. University of Illinois
Instructor, Laboratory School. (1965)
- Peter T. Vagenas, Ph.D. University of Denver
Assistant Professor, Theatre Arts. (1966)
- Helen VanDeventer, M.S. in Ed. Eastern Illinois University
Assistant Professor, Foreign Languages-Education. (1960)
- Charles R. Vaughan, M.S. in Ed. Eastern Illinois University
Instructor, Physical Education for Men. (1965)
- Robert C. Waddell, Ph.D. Iowa State College
Professor, Physics. (On sabbatical leave fall and winter quarters,
1966-67) (1948)
- Eugene M. Waffle, Ph.D. George Peabody College for Teachers
Professor, English. (1926)
- Allan J. Wagenheim, M.A. Columbia University
Instructor, English. (On leave 1966-67) (1964)
- James A. Walker, Ph.D. Harvard University
Associate Professor, English. (1963)
- Ben P. Watkins, M.A. Louisiana State University
Assistant Professor, Art. (1964)
- Charles W. Watson, M.A. Western Kentucky State College
Instructor, Industrial Arts and Technology. (1965)

†Resigned December 31, 1966.

- Robert W. Weidner, Ph.D. University of Rochester
Associate Professor, Music Theory, History and Literature. (1965)
- Terry M. Weidner, Ph.D. The Ohio State University
Assistant Professor, Botany. (1964)
- Bruce E. Weier, M.A. University of Oklahoma
Instructor, Foreign Languages. (1964)
- George S. Westcott, Ph.D. The University of Iowa
Professor, Instrumental Music. (1949)
- Edwin A. Whalin, Jr., Ph.D. University of Illinois
Associate Professor, Physics. (1966)
- Robert V. Wharton, Ph.D. Columbia University
Professor, English. (1966)
- Bruce C. Wheatley, Ph.D. University of Denver
Assistant Professor, Speech. (1966)
- O'Mara White, Jr., M.B.A. University of California, Los Angeles
Instructor, Marketing. (1966)
- Robert F. White, Ph.D. University of Pennsylvania
Associate Professor, English.* (1960)
- Wesley Whiteside, Ph.D. Florida State University
Associate Professor, Botany. (1960)
- L. Stephen Whitley, Ph.D. Purdue University
Assistant Professor, Zoology. (1963)
- Rebecca S. Wild, Ph.D. University of Michigan
Assistant Professor, English. (1966)
- Carl E. Wilen, M.F.A. University of Illinois
Instructor, Art. (1965)
- Roger G. Wiley, M.A. Louisiana State University
Assistant Professor, Speech. (1964)
- Larry J. Williams, M.A. University of Oregon
Instructor, Mathematics. (1964)
- Gilbert E. Wilson, M.A. The University of Iowa
Assistant Professor, Health Education. (1962)
- William K. Wilson, M.S. Indiana State University
Assistant Professor, English. (1966)
- Margaret Wiseman, M.S. in Ed. Southern Illinois University
Instructor, Laboratory School. (1964)
- Robert C. Wiseman, Ed.D. Indiana University
Assistant Professor, Faculty for Professional Education. (1958)
- Verna D. Wittrock, Ph.D. University of Illinois
Associate Professor, English. (1966)
- Leonard C. Wood, Ph.D. University of Pennsylvania
Associate Professor, History. (On leave 1966-67) (1960)
- William G. Wood, Ph.D. University of Illinois
Professor of Sociology-Anthropology.* (1938)
- M. Thomas Woodall, Ph.D. The University of Iowa
Assistant Professor, Physical Education for Men. (1965)
- Marilyn M. Woodruff, M.A. University of Colorado
Instructor, English. (1966)
- Wayne E. Wyler, M.S. Brigham Young University
Assistant Professor, Accounting. (1965)
- Marina Su-Chin Yu, M.A. Texas Woman's University
Instructor, Physical Education for Women. (1966)
- Robert Zabka, Ph.D. Northwestern University
Associate Professor, Faculty for Professional Education. (1964)
- Lorene E. Ziegler, Ed.D. Columbia University
Professor, Laboratory School. (1947)
- Harry Zuger, A.M. Wayne State University
Instructor, English. (On leave 1966-67) (1965)
- Gary L. Zwicky, D.Mus. University of Illinois
Assistant Professor, Keyboard Music. (1966)

I. General Information

FUNCTION

All programs of instruction at Eastern Illinois University are designed to help young people become educated persons, in the broadest sense of the term. Professional programs are offered in several fields. General liberal arts curricula are available in several disciplines for those wanting a broad education for its own sake or as preparation for later professional or graduate study.

RATING

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 13,000.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established the Eastern Illinois State Normal School.

In response to changing demands, Eastern Illinois Normal School became, successively, Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the power of conferring degrees was granted to the institution by the General Assembly. Courses leading to the Bachelor of Education degree were announced in 1920. In 1944 the degree was changed to Bachelor of Science in Education.

Courses leading to the Master of Science in Education degree were announced in 1951; the first master's degrees were conferred July 31, 1952. The master's degree was recognized by the North Central Association of Colleges and Secondary Schools in March, 1953.

In 1954, the Teachers College Board authorized curricula leading to Bachelor of Arts and Bachelor of Science degrees, without preparation for teaching. The first such degree was conferred in June, 1955.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Master of Arts and Master of Science degrees. The first Master of Arts degree was conferred in May, 1963.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Bachelor of Science in Business degree. The first such degree was conferred in August, 1964.

In 1964, the Teachers College Board approved the establishment of curricula leading to the Certificate of Advanced Study, which was changed to the Specialist in Education degree in 1965.

In 1965, the Board of Governors (formerly Teachers College Board) approved the establishment of curricula leading to the Bachelor of Science in Industrial Technology degree and the Bachelor of Science in Home Economics degree.

BUILDINGS AND GROUNDS

The Campus

The grounds cover an area of two hundred and sixty-six acres.

Burgner Ten Acres

A plot of wooded land in Coles County was deeded to the university in 1955 by Mrs. Helen Burgner Douglas of Mattoon in memory of her parents. The site is used for nature study.

Rocky Branch Area

Through the generosity of Nature Conservancy and an anonymous donor, a tract of 126 acres approximately 26 miles southeast of Charleston was given to the university early in 1967. The area is used mainly for study and research by the students and staff in the Division of Life Sciences.

Livingston C. Lord Administration Building (Old Main)

The main building houses administrative offices; the library reserve room; and classrooms for the Departments of English, Psychology, and Mathematics. It is named for the university's first president. It was completed in 1899 as the university's first structure.

Pemberton Hall

This structure was enlarged in 1962 to accommodate 201 women. It was erected in 1909 as the university's first residence hall.

Francis G. Blair Hall

This building is now occupied by the School of Business, the Audio-Visual Center, and the Data Processing Center. It is named for the first director of the training school. It was originally the university's training school.

Florence McAfee Women's Gymnasium

Formerly Lantz Gymnasium, this building was renamed for the late Dr. McAfee, head of the women's physical education program from 1935 until her retirement in 1962. The building is used exclusively for women's physical education.

Science Building

This building contains classrooms and laboratories for the Departments of Chemistry, Geography, and Physics. It was completed in 1939 and remodeled in 1964.

Life Science Building

Housed in this building are the Departments of Botany and Zoology and the Division of Health Education. Associated with the Life Science Building is a complex of greenhouses. The major wing of the building was constructed in 1963, with the Annex added the following year.

The Mary J. Booth Library

The library is named for Dr. Mary J. Booth, librarian from 1904 to 1945. It was opened in 1950 and is located in the center of the campus. Construction of an addition is underway.

Lincoln Hall and Douglas Hall

These residence halls were opened in September, 1952. Each houses 161 students. Now under construction is a tower addition which will increase the capacity of the complex to approximately 710.

North House and South House

North House and South House are ranch-type structures used for demonstrating home management as a part of the home economics curriculum. The Office of Admissions is currently located in the North House.

Robert G. Buzzard Laboratory School

The campus laboratory school for kindergarten through grade nine was completed in 1958. It is named for the university's second president.

University Union

This building contains a cafeteria, the Panther Lair snack shop, a ballroom, lounges, recreation facilities, meeting rooms, and offices. It was completed in 1957. A substantial addition was completed in 1967.

Ford, McKinney, and Weller Halls

These three residence halls house a total of 454 women. They are named for former members of the university faculty. The structures were completed in 1958.

University Apartments

Living facilities for married students are provided in three housing units of thirty apartments each. Two of the units were completed in 1959, and the third in 1965. They are located on Terrace Lane at the south edge of the campus.

Fine Arts Center

This building houses the School of Music and the Department of Art. It contains a "little theater," numerous practice and rehearsal rooms for music, and studios and laboratories for the Art Department. It was completed in 1959.

Andrews Hall

This residence hall houses 480 women. It is named for a former faculty member, Dr. Franklyn Andrews and was opened in 1964.

Lawson Hall

Scheduled for completion in 1967, Lawson Hall is a "mirror image" of the nine-story Andrews Hall. It was named for Dr. Elizabeth K. Lawson, Dean of Women from 1939 until her retirement in 1966.

Clinical Services Building

This structure houses the health service, testing center, reading, speech and hearing clinics, and counseling center. It was opened in September, 1964.

Buzzard House

The former home of Eastern's second president houses the Assistant Dean of Student Personnel Services and the Director of Financial Aids.

Charles H. Coleman Classroom Building

This building is named for Dr. Charles H. Coleman, eminent Lincoln scholar and long-time member of the Department of History. The building houses the Departments of Speech, Foreign Languages, History, Sociology-Anthropology, Economics, Political Science, and Philosophy. It was completed in 1965. Construction of an addition is underway.

Booth House

This building furnishes offices for the Civil Service Personnel Director, Director of Residence Hall Food Services, the Director of Housing, the Assistant Director of Housing, and the Housing Administrator. The building is a bequest from the late Miss Mary Josephine Booth.

Thomas Hall

This residence hall was completed in 1963. It houses 438 men and is named for the late Professor S. E. Thomas, long a member of the Social Science faculty.

Physical Plant Services Building

This building is located in the far northwest corner of the campus and houses shops for personnel responsible for maintenance and operation of the physical plant.

Taylor Hall

This residence hall for 590 men opened in the fall of 1966. It is named for the late Dr. Edson H. Taylor, long a member of the Mathematics Department.

Charles P. Lantz Physical Education and Recreation Building

Named for the late Dr. Charles P. Lantz, coach and athletic director for 41 years, the building opened in 1966. Features include gymnasium, swimming pool, field house, archery, rifle and pistol ranges, and classrooms.

Applied Arts-Education Center

This building houses the School of Home Economics and School of Industrial Arts and Technology, and the Faculty for Professional Education. It was completed in 1967.

Gregg Triad

The Gregg Triad was completed in 1966 as a dining hall to serve the occupants of Ford, McKinney, and Weller Halls. It is named for Mr. Raymond Gregg, Business Manager at the university from 1934 to 1963.

Telephone and Security Building

Offices of the Security staff and the equipment and personnel necessary for the operation of the university telephone system are housed in this building, completed in 1966.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of six state universities and colleges under the general jurisdiction of the Board of Governors of State Colleges and Universities. The internal organization at Eastern consists of two major divisions—instruction and administration.

Included within the instruction division are the instructional services (Library, Audio-Visual Center) and the various instructional units. Major instructional units are the Graduate School, College of Letters and Science, School of Elementary and Junior High School Teaching, School of Business, School of Music, School of Health and Physical Education, School of Home Economics, School of Industrial Arts and Technology, and the Faculty for Professional Education. A Division of Latin American Studies administers interdisciplinary programs in that field leading to both teaching and non-teaching degrees. A Division of Pre-Medical Studies and a Division of Pre-Engineering Studies administer programs in their respective fields.

The administration division includes student academic services, student personnel services and business services.

FIELDS OF STUDY

Bachelor of Science in Education

Majors:

Art	Latin American Studies
Botany	Manual Arts Therapy
Business	Mathematics
Chemistry	Music
Elementary Education	Physical Education, Women
English	Physical Education, Men
French	Physics
Geography	Social Science
German	Spanish
History	Speech
Home Economics	Speech Correction
Industrial Arts	Theater Arts
Junior High School Education	Zoology
Latin	

Minors:

Art	Latin
Biological Science	Library Science
Botany	Mathematics
Business	Music
Chemistry	Physical Education
English	Physics
French	Psychology
Geography	Russian
German	Safety and Driver Education
Health Education	Social Science
History	Spanish
Home Economics	Speech
Industrial Arts	Theater Arts
Journalism	Zoology

Bachelor of Science in Business

Majors:

Accounting	Management
Marketing	Secretarial

Bachelor of Science in Home Economics

Majors:

Dietetics	Home Economics in Business
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Bachelor of Science in Industrial Technology

Options:

Electricity and Electronics	Metalwork
Light Building Construction	

Bachelor of Science*Majors:*

Art
Botany
Business
Chemistry
Economics
English
French
Geography
German
History
Home Economics
Industrial Arts
Latin

Library Science
Mathematics
Music
Physical Education
Physics
Political Science
Psychology
Sociology
Spanish
Speech
Speech Correction
Theater Arts
Zoology

Minors:

Art
Botany
Business
Chemistry
Economics
English
French
Geography
German
History
Home Economics
Industrial Arts
Journalism

Latin
Mathematics
Music
Philosophy
Physics
Political Science
Psychology
Russian
Sociology
Spanish
Speech
Theater Arts
Zoology

Bachelor of Arts*Majors:*

Art
Botany
Business
Chemistry
Economics
English
French
Geography
German
History
Home Economics
Industrial Arts
Latin

Latin American Studies
Mathematics
Music
Physical Education
Physics
Political Science
Psychology
Sociology
Spanish
Speech
Speech Correction
Theater Arts
Zoology

Minors:

Art

Botany

Business
Chemistry
Economics
English
French
Geography
German
History
Home Economics
Industrial Arts
Journalism
Latin

Mathematics
Music
Philosophy
Physics
Political Science
Psychology
Russian
Sociology
Spanish
Speech
Theater Arts
Zoology

Master of Science in Education

Areas of Concentration:

Art
Biological Sciences
Business Education
Educational Administration
Elementary Education
English
Foreign Languages
Geography
Guidance and Counseling

History
Industrial Arts
Mathematics
Music
Physical Education
Physical Science
Social Science
Speech
Speech Correction

Master of Arts

Majors:

English
History
Mathematics

Music
Speech

Master of Science

Botany
Physics

Speech Correction
Zoology

Specialist in Education (two-year graduate program)

Major Area: Educational Administration

DIVISION OF THE YEAR

The university year, September 1 through August 31, consists of four quarters. Three of the quarters, each twelve weeks in length, constitute the traditional academic year, September 1 through May 31. The fourth quarter of ten weeks is offered during the summer months. A graduate term of eight weeks is in session concurrently with the last eight weeks of the summer quarter.

ALUMNI ORGANIZATIONS

Recognizing the contribution a body of truly interested alumni can make to the development of an institution of higher learning, the university has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

The Alumni Association

The Eastern Alumni Association, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one quarter's work here.

Officers of the Alumni Association for 1966-67 are John Huffman, Mattoon, president; Glen Hesler, Mattoon, vice-president; and Marilyn Harris, Mahomet, secretary-treasurer.

The Executive Committee for the Association is composed of the officers and twelve other members elected for three-year terms. Committee members are Gerald Dunn, Mattoon; Ray Suddarth, Springfield; Drayton C. Miller, Charleston; Lynn Swango, Sullivan; Mrs. Jahala DeMoulin, Decatur; Park Fellers, Hillsboro; Gail Lathrop, Olney; Bob Miller, Springfield; W. D. Norviel, Belleville; Jack Whitson, Decatur; John C. Gibson, Paris; and Larry Mizener, Charleston.

Alumni have formed chapters of the Eastern Illinois University Alumni Association in several counties of Illinois. These clubs usually meet from one to four times each year with programs designed to keep graduates and former students in touch with each other and with the university.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$4.00 for two years, and \$5.00 for three years.

The Eastern Illinois University Foundation

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

The president of the university, the chairman of the Board of Governors, and the president of the Alumni Association are automatically honorary members of the foundation. The regular members include one hundred alumni of the university. The board of directors consists of nine persons, including the president of the university, president of the Alumni Association, the director of alumni services and six elected members.

II. Student Life and Activities

LIVING ACCOMMODATIONS

University Policy

Single students under the age of twenty-one are required to live in university-registered housing except when living at home or with relatives or when special permission has been validated in writing by the Dean of Men or the Dean of Women and approved by the Housing Office. University-registered housing does not include apartments. It is understood that when a student contracts for accommodations in a residence hall, university apartment, or registered housing, he agrees to comply with the rules and regulations governing those living units as well as the rules and regulations for all university students.

On Campus Housing

Residence Halls. Applications for accommodations in the university residence halls may be made to the Director of Housing prior to acceptance for admission to the university. Application for admission does not constitute an application for housing. Students are encouraged to apply for housing at an early date. Accommodations are available as follows:

WOMEN		MEN	
Andrews Hall	480	Douglas Hall	161
Ford Hall	152	Taylor Hall	590
Lawson Hall	480	Thomas Hall	438
Lincoln Hall	161		
McKinney Hall	150		
Pemberton Hall	201		
Weller Hall	152		

Further information relative to cost of room and board and the housing security deposit which must accompany the application may be found in Section III.

Married Student Housing. Applications for the University Apartments may be secured from the Director of Married Student Housing.

Housing for married students consists of ninety units, located on Terrace Lane at the south end of the campus. The 36 two-room apartments and 54 one and one-half room apartments are each provided with sofa bed, chair, dinette set, corner tables, and other items of efficiency equipment. Electricity, heat, hot water, T.V. antenna outlets, washers, etc. are furnished by the university. To occupy an apartment, a person must be married, living with his family, and enrolled at Eastern.

A housing security deposit of \$25 is required of all tenants housed in university-owned apartments. When occupancy ceases and all property and damages, if any, are satisfactorily accounted for, the deposit is refunded in whole or in part.

Off-Campus Housing

Housing is available off campus in registered housing. A registered house is a home in the community which has been approved as meeting the standards set by the university. A list of vacancies in registered housing is maintained in the office of the Director of Housing. The student is responsible for making arrangements with the householder for a room in the community; however, the university requires a signed agreement between the householder and student.

Married students desiring to live in off-campus housing may secure a rental list at the Office of the Director of Married Student Housing.

GENERAL SERVICES

Counseling

The Counseling Center is staffed by professional counselors who assist university students in matters pertaining to vocational choice, personal and social adjustment, and educational development. Limited psychological services are available without charge. Special materials are available for students interested in investigating specific occupational fields.

Employment

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the university and in the community. Student employment is contingent upon maintenance of satisfactory academic standing.

Insurance

By action of the Board of Governors, each full-time student is assessed a fee for group health and accident insurance administered by the university to supplement services performed by the University Health Service. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available for all four quarters of the year. Students attending spring quarter who do not intend to be enrolled during the summer but who wish summer coverage must apply for this insurance sometime during the spring quarter. Summer quarter insurance is in force until the following registration day.

The group policy provides for all reasonable hospital expense, 80% of surgical or medical fees, and 80% major medical expense up to \$5,000 for any one accident or period of illness.

Information concerning the insurance may be obtained in the Office of Financial Aids.

Medical

The Health Service is located in the Clinical Services Building. It renders limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the university community.

Services provided by the Health Service are covered by student activity fees.

Placement

Registration or re-registration with the Placement Office is a requirement for graduation for all degree candidates. The Placement Office seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information about the applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior status. Eastern graduates who hold a degree other than in education are eligible for teacher placement if requirements for a regular teacher's certificate are met. *Graduate Students* may register for placement if they have attended Eastern for one quarter and have earned 16 quarter hours of graduate credit toward a master's degree. This credit may include graduate extension courses offered off campus. *Alumni* may re-register by bringing their credentials up to date and paying a fee of \$2.

Industrial and Business Placement Services are available to those students who have attained senior status. The Placement Office furnishes the candidate's credentials to prospective employers and renders other services fundamental to the selection of employees.

Testing

Testing and consultative services are available to university students and area schools. Interest and personality inventories as well as aptitude and intelligence tests are administered and evaluated free of charge not only to university students but also to pupils who are referred by school officials.

Consultative services are available to schools desiring to set up testing programs; considerable test material is available for examination.

The Testing Service has 805 and 1230 IBM test scoring machines, and the scoring of standardized tests is a service that may be arranged for by area schools at nominal cost.

For detailed information write to the Director of Testing Services.

INSTRUCTIONAL SERVICE

Audio-Visual Services

The Audio-Visual Center in Blair Hall operates as an educational service for faculty and students. Audio-visual teaching materials such as films, film-strips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Preview services are available on a

limited basis. Slides, transparencies, photographic copies, and other graphic materials may be produced for individual instructors. Consultative service is offered to university faculty, prospective teachers, and to schools in the area.

Book Rental and Sales

Basic textbooks for university courses are rented to students through the Textbook Library. Book rent is paid at the time of registration. Laboratory manuals, special notebooks, and other materials not classified as basic textbooks may be purchased by the student as needed. Textbooks may be purchased any time with the exception of two-week periods at the beginning and end of each quarter. Used books are sold to students at a ten per cent discount off the cost price for each time the book has been checked out, as indicated by the record on the book card.

Rented textbooks must be returned in satisfactory condition by noon of the day following the last day of the quarter. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, high-lighting, annotating, adding other marginalia, etc. A fine of \$1 per book is imposed if the student's textbook record is not clear by the close of the quarter.

Library Services

Booth Library. This library provides a comprehensive collection of materials for instructional and recreational purposes. It has a total of 135,000 volumes, plus over 4,500 cataloged items in the record music collection and a substantial number of uncataloged pamphlets, pictures and prints. The library is an official depository for federal documents. It currently receives over 1,400 different periodicals. A browsing room for general reading is provided. The music listening room, with its store of classical and popular records, is open on regular schedule to students, and there are frequent exhibitions of paintings and craft work in the Paul Turner Sargent Art Gallery.

Laboratory School Library. This library, a part of the general university library system, houses a collection of materials suitable for the elementary and junior high school levels. Besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in this collection and with its method of operation.

Reserve Reading Room. Books which departments request be placed on reserve are located in the Reserve Reading Room in Old Main. This service is available daily according to a posted schedule.

Reading Improvement

Each quarter, the Reading Clinic offers non-credit courses in speed reading designed to improve speed, comprehension, and general

study habits. Classes meet at various times during the day so that each student may choose a section which meets at a convenient hour. Courses are free to regularly enrolled students. Materials used in the courses are furnished without charge. Application for admission should be made early in the quarter at the Reading Clinic on the second floor of the Clinical Services Building.

In addition to conducting its university reading program, the clinic accepts some children, usually from the campus elementary school, for corrective work in reading. Junior, senior, and graduate students taking advanced work in reading obtain practical experience by working with these children under supervision.

Speech and Hearing Diagnosis and Correction

The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvements of speech disorders. The services are available without charge to university students, Laboratory School pupils, and children and adults in east central Illinois. Junior and senior students in courses of speech and hearing obtain required clinical practice by working with these people under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

Student-Faculty Boards

Except for those carried out by groups such as fraternities and clubs, most student activities are supervised cooperatively by the students and the faculty by means of student-faculty boards and committees. Faculty members of these boards are appointed by the president of the university with the nominations coming from the Faculty Senate. Student members are appointed by the Student Senate with the cooperation of the Dean, Student Personnel Services. The Dean of Student Personnel Services, or his representative, and the president of the Student Senate are ex officio members of all boards. The following boards have been established: Apportionment Board, Artists Series Board, Health and Hospitalization Board, Lecture Series Board, Men's Athletic Board, Music Activities Board, Radio Board, Speech Activities Board, Student Publications Board, Traffic and Safety Board, University Union Board, Women's Athletic Board.

Activity Fees

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. The allocation of funds from the activity fees is made by the Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

Artists Series

Each year the university offers as cultural entertainment by individuals and groups of national reputation programs of music, theater, and dance.

A student-faculty Artists Series Board arranges and executes the series, keeping in mind the preferences and needs of students. In most instances students gain admission by presenting a properly validated ID card ; for other programs, a reduced price is offered. Faculty and area residents may purchase individual or series tickets.

Lecture Series

The university offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board composed of faculty and students. Various departments also engage lecturers in fields of specialized interest. No admission fee is charged.

University Union Activities

The University Union houses a cafeteria, snack bar, game rooms, bowling alley, ballroom, lounges, and offices for the Director, Director of Union Food Services, Director of Union Bowling Alley, and the Student Senate.

The Director, assisted by a student-faculty board, plans a variety of activities for the students. Included are dances, receptions, recitals, billiards, bridge and chess contests and instruction.

Organizations wishing to use university facilities for meetings schedule these facilities at the University Union desk.

Forensics

Through the Department of Speech students of undergraduate standing are offered the opportunity to participate in intercollegiate tournament experience in extemporaneous speaking, oratory, debate, and discussion.

Members of the forensic teams engage in competition with speakers from the major colleges and universities. Opportunity is also provided for members of the teams to appear on radio and television programs throughout the Illinois-Indiana area and before civic clubs and high school assemblies.

Affiliation is maintained with several regional and national forensic organizations including: Illinois Intercollegiate Debate League, Illinois Intercollegiate Oratorical Association, Interstate Oratorical Association, American Forensic Association, and Pi Kappa Delta, the national honorary forensic fraternity.

Theatre

The Department of Theatre Arts sponsors a variety of activities. A full-length play and a full-length oral interpretation program are presented each quarter as public performances. Each week a student-directed workshop program is produced. This activity includes short plays, skits, readings, and demonstrations.

Any student in the university is eligible to participate in the activities of the department. Practical experience in all phases of theatre can be obtained.

The department conducts its activities in a little theatre which seats 420 people.

Radio

Several activities provide an enjoyable introduction to the broadcast media. Each week students help produce radio programs that are broadcast by stations in Illinois. The campus radio station, WELH, is operated entirely by students and broadcasts more than 50 hours per week. In addition, a Radio Club meets weekly to produce special radio programs, such as hootenannies, promotional announcements, etc., and to introduce the student to the skills and theories of broadcasting. The activities mentioned above are open to all full-time students regardless of major.

Music

Music organizations provide opportunities for musical growth through enjoyable activities which in turn contribute richly to the life of the university. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, and an orchestra. Major choral organizations are the mixed chorus, men's glee club, and the Cecilian Singers. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform music.

The Paul Turner Sargent Art Gallery

The Paul Turner Sargent Art Gallery in Booth Library brings to the campus exhibitions selected from among the various areas of the visual arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles—each collection is on display usually for a three-week period. Special lectures and films related to the exhibitions are scheduled from time to time. This expansion of the Department of Art provides important original works for study in the art classes.

Publications

Student publications are a semi-weekly newspaper, the *Eastern News*; a literary magazine, *The Vehicle*; and a yearbook, *The Warbler*. The newspaper is published by a student staff with a faculty adviser. Staff positions on the *News* are open to all qualified students.

The *Warbler* is issued annually as a pictorial record of the university year. A student editorial staff, supervised by a faculty adviser, is responsible for the publication. All qualified students are eligible for the staff.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, *The Vehicle*, and *Warbler*.

Women's Athletics

The Department of Physical Education for Women sponsors the Women's Athletic Association which is open to all women enrolled as regular students. Any student becomes a member of the Women's Association by participating in one activity. Any active member is eligible to vote, to attend the annual banquet, to travel to other colleges for competition, and to participate in the sportsdays held at

Eastern. There are fifteen activities during the year. Activities offered by the Women's Athletic Association are apparatus, archery, badminton, baitcasting, bowling, canoeing, fencing, folk and square dancing, golf, hockey, modern dance, softball, swimming, and tennis. Basketball, bowling, and volleyball are organized on an intramural basis, with teams from residence halls, sororities, and private homes competing. The modern dance concert and the synchronized swimming show are special events in which any student may perform. Two awards are given by the Women's Athletic Association to students who participate actively in the athletic program for women.

Intramural Athletics

The Department of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students. The objective of this program is to make recreation and physical development available to every student.

Intercollegiate Athletics

Through the medium of intercollegiate athletics opportunities for competition are presented for individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals to the end that personal growth and character necessary in good teaching will result. In addition, the acquisition of certain professional techniques and skills basic to the development of sound teaching practice as well as individual recreational competence are objectives of the athletic program. In furtherance of these purposes, the university is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics, and the National Collegiate Athletic Association.

The university maintains a program of intercollegiate athletics in football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The university adheres to the policies of the North Central Association of Colleges and Secondary Schools concerning intercollegiate athletics.

STUDENT ORGANIZATIONS

Student Senate

The Student Senate is the representative body for all students. The officers and members are elected by popular vote.

The Senate is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration. It takes responsibility for such events as Parents Weekend, campus elections, and light concerts. Student members of the student-faculty boards are appointed by the Student Senate with the cooperation of the Dean, Student Personnel Services.

Departmental Clubs

Accounting, Amateur Radio, Ahmoweenah Writers, Elementary and Jr. High Men, Botany, Economics, English, French, German, History, Home Economics, Industrial Arts, Latin, Library Science, Management Forum, Marketing, Mathematics, Men's Physical Education, Music Educators National Conference, Student Affiliate Section of the American Chemical Society, Student Affiliate of National Art Education Association, Student Section of The American Institute of Physics, Pre-Medical Association, Radio-TV, Russian, Spanish, University Council for the United Nations, Women's Physical Education, Zoology Seminar.

Religious Organizations

Baptist Student Union, Canterbury Association, Christian Science Fellowship, Gamma Delta, Inter-Varsity Christian Fellowship, Newman Club, Roger Williams Fellowship, Student Religious Council, United Campus Ministry, Wesley Foundation.

Athletic Organizations

Varsity Club, Women's Athletic Association.

Residence Hall Council and Association

Each residence hall organizes a council to assist in improving student life in the hall. The Residence Hall Association, which comprises residence hall council presidents and elected representatives from each hall handles matters common to all residence halls.

Service Organizations

Alpha Phi Omega, Circle K Club.

Special Groups

Association for Childhood Education, Association of International Students, Council on Human Relations, Council on Student Life, Consultative Council on Administration, Consultative Council on Instruction, Independent Student Association, Interdepartmental Forum, Pompon Corps, Student Education Association, Student Wives' Organization, Young Democrats, Young Republicans.

Interfraternity Council

The Interfraternity Council, composed of three members from each fraternity, aids in establishing policies relating to the fraternity system. It cooperates with the Panhellenic Council in planning the annual Greek Week program. The following fraternities are represented:

Alpha Kappa Lambda, Rho Chapter

Beta Sigma Psi, Mu Chapter

Delta Chi, Delta Chi Colony

Delta Sigma Phi, Delta Psi Chapter

Phi Sigma Epsilon, Delta Chapter

Pi Kappa Alpha, Zeta Gamma Chapter

Sigma Pi, Beta Gamma Chapter

Sigma Tau Gamma, Alpha Alpha Chapter

Tau Kappa Epsilon, Gamma Omega Chapter

Panhellenic Council

The Panhellenic Council is composed of two appointed representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year. The following sororities are represented:

Alpha Gamma Delta, Beta Iota Chapter
Delta Zeta, Gamma Nu Chapter
Kappa Delta, Delta Beta Chapter
Sigma Kappa, Gamma Mu Chapter
Sigma Sigma Sigma, Alpha Psi Chapter

Honorary and Professional Fraternities

Beta Beta Beta, Gamma Theta Chapter: Biological Science
Delta Sigma Pi, Epsilon Omega Chapter: Business Administration
Epsilon Pi Tau, Iota Chapter: Industrial Arts
Gamma Theta Upsilon, Rho Chapter: Geography
Kappa Delta Pi, Beta Psi Chapter: Education
Kappa Mu Epsilon, Illinois Beta Chapter: Mathematics
Kappa Omicron Phi, Alpha Theta Chapter: Home Economics
Phi Alpha Theta, Epsilon Mu Chapter: History
Phi Beta Lambda, Iota Omicron Chapter: Business and Business Education
Phi Delta Kappa, Delta Omega Chapter: Education
Phi Epsilon Kappa, Beta Zeta Chapter: Men's Physical Education
Phi Mu Alpha Sinfonia, Xi Upsilon Chapter: School of Music
Phi Sigma Mu, Theta Chapter: Music Education
Pi Delta Epsilon: Journalism
Pi Kappa Delta, Illinois Sigma Chapter: Forensics
Pi Omega Pi, Alpha Chi Chapter: Business Education
Sigma Alpha Eta, Alpha Alpha Chapter: Speech and Hearing Disorders
Sigma Delta Psi, Epsilon Sigma Chapter: Men's Athletics
Sigma Tau Delta, Upsilon Gamma Chapter: English

AUTOMOBILE REGISTRATION AND CONTROL

For the purpose of definition a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles.

Freshman Motor Vehicle Regulation

No first-year undergraduate student who has completed less than 43 quarter hours, including nominal credit courses, shall possess or operate a motor vehicle in the university community (Charleston

Township) during the academic year or during the summer quarter. An exception to this regulation may be made for a first-year undergraduate student who is physically handicapped, or who resides with his or her parents in Charleston Township, or who can demonstrate a critical need for a motor vehicle because of employment or other circumstance.

A request for an exception to the above regulation should be addressed to Mr. Donald A. Kluge, Chairman, Freshman Motor Vehicle Regulation Committee, Eastern Illinois University.

Registration of Vehicles

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around the campus to register the vehicle in the Security Office. Registration is free.

After the first week of classes each quarter, the owner of a motor vehicle found parked on the campus without a registration sticker will be charged a \$5 late registration fee.

Parking Permits

An application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$1 or \$2 depending on lot assignment. A permit for the summer session is 50c.

University Traffic Regulations

All state and community laws apply on campus. University parking regulations are in effect until 5:00 p.m. of the last day of examinations of each quarter. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

Traffic Penalties

Failure to report a change affecting parking privileges—\$5; Falsification of registration—\$10 and possible referral for disciplinary action; Parking violations, 1st offense—\$1, 2nd offense—\$5, 3rd offense—\$10, 4th offense—loss of campus parking privileges and possible referral for disciplinary action; Moving violations, 1st offense—\$5, 2nd offense—\$10, 3rd offense—\$15, 4th offense—loss of campus parking privileges and possible referral for disciplinary action.

Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration. A student, faculty member, or employee may appeal his case to the Traffic and Safety Committee. Appeal forms may be obtained in the Security Office.

A violator of the freshman motor vehicle regulation will be subject to a penalty of \$50 for the first and second offenses and will be automatically suspended from the university for the third offense. A violator may appeal his case to the Appeal Committee of the Freshman Motor Vehicle Regulation.

BICYCLE REGISTRATION AND CONTROL

For the purpose of definition a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

Registration

It is the responsibility of each student, employee, and faculty member operating a bicycle on the campus to register the bicycle in the Security Office. Registration and parking permit are free.

Penalties for Violation and Noncompliance

Failure to comply with registration requirements—\$1; Failure to use bicycle in conformity with operational provisions—\$1; Violation of parking restrictions—\$1; Fourth offense—possible referral for disciplinary action.

III. Student Expenses and Financial Aid

EXPENSES

Application Fee

A non-refundable charge of \$15 must accompany the application for admission of both undergraduate and graduate students.

Quarterly Fees

Fees described below are payable on or before registration day of each quarter:

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

Registration Fee	\$40.00
Service Fee*	38.25
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Total	\$78.25

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

Course Fee (per course)	\$12.50
Service Fee** (per course)	7.50
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Total	\$20.00

A part-time student may purchase a student activity ticket for the regular price of \$10. He is not permitted to purchase health and accident insurance.

Out-of-State Tuition: In addition to the regular university fees, a student who is not a legal resident of the State of Illinois is required to pay an Out-of-State Tuition Fee of \$57.00 per quarter if enrolled as a full-time student. A part-time student must pay \$14.25 per course each quarter in addition to the regular fees.

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state tuition fee unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

*Student Activity Fee—\$10, Bond Revenue Building Fee—\$14, Textbook Rental Fee—\$8, Health Insurance Fee—\$6.25.

**Bond Revenue Building Fee—\$5, Textbook Rental Fee—\$2.50 (per course). The Bond Revenue Building Fee is payable by each student for the construction and maintenance of the University Union and Physical Education and Recreation Building.

Extension Fees

The fee is \$24 for each four-quarter-hour course with an additional charge of \$2.50 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

Miscellaneous Fees and Charges

Late Registration Fee. An extra fee of \$15 is charged for anyone who registers after the registration dates shown in the catalog or who fails to pay all fees on registration day. This fee is non-refundable. No registrations are accepted after the fifth day of university classes.

Fee for Late Tests. Students applying for admission must furnish test scores administered by the American College Testing Program (ACT). Students failing to furnish such test scores or failing to arrange to take comparable tests on campus will be subject to a late testing fee of \$1 per test.

Applied Music Fee. A fee of \$7.50 is charged for each applied music course taken by a student whose major and minor are in fields other than music.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. The fee of \$15 for graduate degree candidates and \$10 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation for a particular quarter is registration day of that quarter.

Transcript Fee. The university will furnish one transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional 50c fee will be charged for each extra copy of the transcript prepared at the same time. Transcripts will be issued only for students whose university records are clear.

General Library Service Fee. All library materials must be returned and records cleared by the end of each quarter. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations, and a service charge of not less than \$1 is added for failure to clear records at the end of the quarter. In addition, students who fail to clear library records are denied library privileges.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by noon following the last day of the quarter. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc.

Change of Program Fee. A fee of \$5 is charged for each course added after registration day. The fee is non-refundable. Certain exemptions are permitted. No additions may be made to student programs after the fifth day of university classes.

Chemistry Breakage Ticket. A deposit of \$3 is required for a breakage fee in all chemistry classes except Chemistry 340. Refund is made of the amount not used for actual breakage after the locker is checked out.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the University Union. The cost per lock is \$2.45.

Charges for Materials. Fees are paid for materials used in certain courses in art and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses and elective projects in industrial arts courses numbered 336, 356, 420, and 447.

Residence Hall Charges

Housing Security Deposit. A housing security deposit of \$25 is required with an application for accommodation in the university residence halls. The deposit will be held by the university as security for payment for any loss of or damage to university property. The deposit will be refunded upon request if the application is cancelled in writing prior to the signing of a residence hall contract. When a residence hall contract has been signed by an applicant, refund of the deposit will be made according to the terms of the contract.

Board and Room Charges. During the fall, winter, and spring quarters, charge for board and room in university residence halls is \$280 per quarter, if paid in full in one payment, or \$282 per quarter, if paid in installments on dates set by the university. This payment includes towels and linens; it does not include Sunday evening meals and meals during vacation periods. Rates for the summer quarter and summer terms are published in the summer bulletin.

Most rooms are for double occupancy, except that a few single rooms are available. A few rooms are occupied by three persons. Details concerning residence hall occupancy are found in the residence hall contract. Detailed information on possible installment payment is available from the Office of the Director of Housing.

The university reserves the right to increase residence hall rates, if necessary, at the beginning of any quarter or summer term, with the understanding that at least sixty days notice will be given prior to the opening of the quarter in which the increase takes effect.

Late Payment Fee. A fee of \$5 is charged if a residence hall payment is not paid on the dates set by the university unless special permission is granted by the Director of Housing.

OFFICIAL RECEIPTS

Official receipts for university fees must be preserved by the student during the quarter involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

Withdrawal

Regular. If a student withdraws from the university during a quarter by completing the procedure described in Section V and if his initial notice of intention to withdraw is made to the Dean of Men or Dean of Women during the first ten calendar days following the first day of classes for the quarter, the registration fee will be refunded. There will be no refund of the service fee. If the withdrawal is initiated at a later date, there is no refund of any fees. The official receipt for university fees must accompany the request for refund.

Military Duty. A student called up for active duty or induction into the Armed Forces prior to the 27th regular class day of the quarter will be given a refund of all fees except the service fee.

Pre-Registration

Non-Enrollment. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear at the university for classes, all fees will be refunded if notice is given in writing to the Assistant Dean, Registration and Records, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the registration fee will be refunded.

Change in Load. A student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded only the difference between his registration fee and the course fee for those courses constituting his part-time load. There will be no refund of the service fee.

Denied Admission

If a student pre-registers and pays his fees prior to the regular registration date but is subsequently denied admission to the university, all fees will be refunded.

Board and Room

There will be no refund of room rent except upon cancellation of the residence hall contract, in accordance with the terms thereof, because of withdrawal from the university for one of the following reasons and under the conditions as stated: (1) action by the university for academic reasons, including graduation; (2) health reasons as certified by the Director of Health Service; (3) emergency reasons as validated in writing by the Dean of Men or the Dean of Women and approved by the Housing Office, including call for active duty in or induction into the Armed Forces.

FINANCIAL AIDS

State Scholarships

Holders of state scholarships listed below are exempt from payment of the registration fee, activity fee, and graduation fee. They

are required to pay the bond revenue building fee, textbook rental fee, and health insurance fee. They must also pay fees and charges for supplies and materials assessed in certain courses. (Holders of monetary scholarships administered by the Illinois State Scholarship Commission are exempt from payment of the registration fee and service fee. They, too, are obliged to pay fees assessed for certain courses and any charges for supplies and materials.)

The holders of these scholarships must meet the admissions requirements of the university. The scholarship is forfeited if the holder is not enrolled within five days after the opening of the school term or if he withdraws from the university.

Full state scholarships are valid for four calendar years, thus permitting use of the scholarship for graduate study if students have accelerated their undergraduate program by attending summer school. In some cases students are awarded the balance of partially used scholarships.

Military Scholarships must be registered with the Director of Veterans Services to be valid for use. All other state scholarships must be filed with the Office of Financial Aids to be valid.

Holders of these scholarships may be granted a leave of absence not to exceed two years because of illness, the necessity of earning funds to defray expenses while in school, or military duty. Application for the leave of absence must be made to the Director of Financial Aids.

Teacher Education Scholarships. In order to be eligible for consideration for this scholarship a student must rank in the upper one-half of his graduating class and signify his intention to prepare to teach in the public schools of Illinois. The high school principal certifies to the County Superintendent of Schools, each year before July 1, the name and address of each student entitled to receive this scholarship. The County Superintendent then certifies to the Superintendent of Public Instruction all the names and addresses of students submitted by the high school principals. The scholarship is issued by the Superintendent of Public Instruction.

A high school with an enrollment of fewer than 500 students may award five scholarships; a high school with 500 to 1000 students may award seven scholarships; a high school with more than 1000 students may award nine scholarships.

Other specialized teacher education scholarships are as follows: Junior College Graduate, issued by junior colleges to their graduates who continue their education; General Educational Development, issued by the County Superintendent of Schools to students who rank high in their G.E.D. qualifying test for a high school diploma; Special Education, issued by the County Superintendent of Schools to students enrolling or enrolled in a Special Education curriculum; Adult Education, initiated through the County Superintendent of Schools and issued by the State Superintendent of Public Instruction to adults 21 years or more of age who desire to complete work for an undergraduate degree in education.

These scholarships are forfeited by an undergraduate who transfers out of a curriculum which leads to a Bachelor of Science in Education degree.

Military Scholarship. Any person who served in the armed forces of the United States during World War I or any time after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged from such service, may be awarded a scholarship. Application should be made by filing a photostatic copy of the discharge or separation papers with the Director of Veterans' Services. This scholarship cannot be used when a veteran draws federal subsistence.

General Assembly Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom shall receive a scholarship to the University of Illinois and the other a scholarship to any other state-supported university designated by the member. Application is made directly to the legislator who makes the appointment through the Office of the State Superintendent of Public Instruction.

County Scholarship. This scholarship award is made by the County Scholarship Committee of Illinois. High school seniors must indicate that they wish to enter competition for this award in their county at the time they take the American College Testing Examination.

First-Year Illinois State Scholarship Commission. In general, the eligibility of an applicant is determined on the basis of (1) his high school academic record, (2) the results of a competitive examination to be conducted by the Commission at an appropriate time during each fiscal year, and (3) financial need. Each scholarship is renewable by the Commission annually without further competitive examination for a total of three academic years or until such earlier time as the student receives a degree normally obtained in four academic years. For more information, inquiries may be directed to: Illinois State Scholarship Commission, 730 Waukegan Road, Deerfield, Illinois.

Upperclass Illinois State Scholarship Commission. A student who has satisfactorily completed at least one, but not more than three, academic years of work and who was enrolled at Eastern the previous spring or summer quarter preceding September 1 of the year for which application is made and whose parents are residents of Illinois and who can establish financial need may receive consideration for this scholarship. Applications should be made to the Director of Financial Aids.

Illinois Congress of Parents and Teachers Scholarships

The Illinois Congress of Parents and Teachers gives funds each year for scholarships which are awarded to selected students. The

qualifications for eligibility are: high scholastic standing, good health, and the need of financial aid. The applicant must signify intention to teach. Application for the scholarship should be made to the Director of Financial Aids.

Awards

Achievement Fund Scholarship Award. Established in 1965 to provide financial assistance to outstanding students. The award presently goes each year to one or more students who have attained at least sophomore standing and who need at least one more year of study to receive a bachelor's degree. Selection of the recipient, including the determination of financial need, is made by the Financial Grants Committee.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the Main Building of the university. The award is made annually to a business major who has completed at least one year of college work with not less than a B average and who is selected by the faculty of the School of Business on the basis of outstanding personal character and interest in the field of business and business education.

Business Alumni Award. Established by the alumni of the School of Business. It is made annually to a junior business major whose personal character, scholastic achievement, and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by the faculty of the School of Business.

Charleston Achievement Award. A scholarship of \$150 made available annually by the Kiwanis and Rotary Clubs of the city. In order to qualify for the award, a student must be a graduate of Charleston High School, be classified as a junior, have a cumulative grade point average of 3.0 or better, have a record of better than average participation in activities, have leadership qualities, and an intention to graduate from Eastern.

G. B. Dudley Award. Established by Tilford Dudley in memory of his father who was closely associated with the university. The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences: botany, chemistry, physics, and zoology. The recipients are chosen by the heads of these four departments.

Leo J. Dvorak Memorial Award. Established in memory of Dr. Leo J. Dvorak, late Director of the School of Music. The award is presented to a junior music major who shows promise of becoming an outstanding teacher in public school music. Selection of the recipient is made by the faculty of the School of Music.

Ann Frommel Memorial Award. A scholarship for outstanding

students in botany, zoology, and chemistry, established by Mr. and Mrs. Albert E. Frommel, Charleston, in memory of their daughter. The award is made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a B average in all academic subjects.

Foreign Student Scholarship. Established in 1966 by the Board of Governors of State Colleges and Universities. The award is made to foreign students based on scholastic achievement, academic promise, personal character, and financial need. Tuition, registration fees and out-of-state fees are waived for students receiving the scholarship. Selection of the recipients is made by the Foreign Student Scholarship Committee.

Bobbie King Memorial Scholarship. Established in 1966 by Mr. and Mrs. Karl King of Charleston, Illinois in memory of their daughter. The award will go annually to a junior or senior demonstrating outstanding achievement in the study of foreign languages.

Charles P. Lantz Scholarship. Established in memory of Dr. Charles P. Lantz, Director of Athletics at Eastern from 1911 to 1952. The award is made annually to one or more persons who will be seniors the following year, who have demonstrated outstanding athletic achievement, who have shown evidence of leadership qualities, and who have demonstrated above-average scholastic ability.

Livingston C. Lord Memorial Scholarship. Established by Alumni Association of the University in memory of Livingston C. Lord, President of the College, 1899-1933. It is the university's highest award for scholarship.

The scholarships are awarded annually at commencement to one or more junior or senior students graduating at either the spring or summer commencement of the calendar year following the year in which the award is announced. The student's character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Winnie Davis Neely Memorial Award. Established by Sigma Tau Delta, national professional English fraternity, in memory of Winnie Davis Neely, a member of the English Department, 1934-1952. An award is made annually to the university student who submits the best manuscript in the literary contest sponsored by the student literary publication and Sigma Tau Delta.

Emma Reinhardt Award. Established in 1962 by members of Beta Psi Chapter of Kappa Delta Pi in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt, counselor to the chapter for thirty-one years. The award is made annually to the highest ranking junior pursuing the degree of Bachelor of Science in Education.

Irving L. Sparks Memorial Scholarship. Established in 1966 by friends and colleagues of the late Dr. Irvin L. Sparks, professor of

physics at Eastern Illinois University. The award will be made each year to an incoming freshman student who plans to major in physics and who has an outstanding high school scholastic record in that field of study.

Talented Student Awards. Established in 1966 by the Board of Governors of State Colleges and Universities to encourage the development of unique student talents. Tuition (registration fees) is waived for students receiving the awards. The awards go primarily to incoming new students who give promise of unique talents in art, athletics, dramatics, forensics, music, broadcasting, and student publications. After four years, 280 of the awards will be made annually. Nominees for the awards are made by department heads and faculty advisers. Selection of the recipients is made by the Financial Grants Committee.

Paul Turner Sargent Scholarship Award. Established by the family and friends of the late Paul Turner Sargent, nationally known artist and a 1906 Eastern graduate. Each year the award is made to an art major or minor who has completed at least eighty quarter hours of course credit.

William Craig Simmons Memorial Award. Established by Mrs. W. C. Simmons, Charleston, in memory of her husband. The award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by faculty members of the School of Business.

Kate Booker Stapp Scholarship. Available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother. Applications are made to the Director of Financial Aids.

Edson H. Taylor Award. Established in honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the Mathematics Department on the basis of excellence of scholarship in mathematics.

Annie L. Weller Award. Established in memory of Miss Annie L. Weller, late Head of the Geography Department. The award is made annually to a graduating senior planning to pursue graduate study prior to a career in teaching. Eligible candidates must be majoring in the humanities, social sciences, or natural sciences and must have demonstrated superior scholarship ability.

Howard DeForest Widger Award. Granted annually by the

Alumni Association to a senior English major selected by the faculty members of the English Department. The award is given for outstanding personal character and scholastic achievement in the field of English.

Loans

The Adelia Carothers Fund. This fund was established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during their junior and senior year. The interest rate is two per cent during enrollment. At termination of enrollment the rate increases to six per cent.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged. To be eligible, a student must be in residence at the university at least one quarter.

Illinois Congress of Parents and Teachers Loan Fund. In September of 1954 the Illinois Congress of Parents and Teachers established a loan fund of \$1,000. Loans from this fund on either a short or long-term basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within a year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in honor of Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Women's Physical Education staff.

National Defense Student Loan Fund. The National Defense Student Loan program was established by Congress in 1958. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan; he must be enrolled as a full-time student or half-time student; and he must meet the academic and social standards set by the university.

The amount of the loan will be determined by the university on the basis of availability of funds and the student's financial need.

The Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean of Women.

University Loan Fund. To be eligible for a University Loan a student must be of at least sophomore standing with an academic average of at least C. The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student may borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is two per cent during enrollment. At termination of enrollment, the rate increases to six per cent.

The will of the late Dr. W. D. Morgan of Charleston gives to the Student Loan Fund the annual income from approximately \$6,000. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the university by the will of the late John L. Whisnand of Charleston, upon the death of his widow, a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount is in trust with the Charleston National Bank.

Veterans Benefits

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1965. Benefits will be for a period equivalent to active duty up to a limit of 36 months. Minimum monthly benefits are \$100 for a full-time student.

Public Laws 634 and 815. Veterans with 30% or more disability are eligible for training under Public Law 815. War orphans may receive training under Public Law 634.

Applications are processed by the Director of Veteran's Services.

Federal Grants

Beginning in September, 1966, Eastern will have federal grants available for students who qualify to participate under the provisions of the Higher Education Act of 1965. Availability of funds will dictate the number of students assisted by these grants.

Illinois Orphans Education Act

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans. Qualified orphans may receive up to \$150 with which to defray expenses. Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois.

State Rehabilitation Program

The university cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained in the Counseling Center or in the local office of the Division of Vocational Rehabilitation serving the area or the student's home.

Student Employment

See Section II.

IV. Admission, Registration and Advisement

ADMISSION AND READMISSION

Policies

*First-Time-in-College Students.** In order to permit the university to make full utilization of its staff and facilities and at the same time avoid the risk of overcrowding classrooms and housing, the following priorities will be observed for fall quarter, 1968, applications:

Until April 1, 1968, the university will give priority in considering applications for students who ranked in the upper 40% of their high school graduating classes. All Teacher Education Scholarship holders ranking in the upper 50% of their high school graduating class will be given priority.

To the Fall Quarter, 1968. The University will give immediate acceptance to all applicants who have completed application materials and who rank in the upper forty per cent of their high school graduating classes based on their sixth semester transcripts. Applicants who do not rank in the upper forty per cent of their classes at the end of six semesters will be notified of their acceptance on the basis of their seventh semester ranks. The University will consider applications for students who rank in the upper fifty per cent of their high school classes as based upon seventh semester grades, providing space is available and enrollment limits have not been reached.

After April 1, 1968, the university will consider applications from additional students who ranked in the upper 50% of their high school graduating classes, if enrollment limits have not been reached.

After May 1, 1968, the university may accept applications from any students who ranked in the upper 60% of their high school graduating classes, provided such action is justified by the number of application cancellations.

For winter quarter, applications from students in the top 50% of their high school classes will be given top priority, with applications from the next 10% to be considered only if there is available space.

For spring quarter, applications from students in the top 60% will be considered insofar as space is available.

For the Summer Quarter, 1968. Applications from all qualified high school graduates will be considered for admission regardless of rank in class as determined by their sixth semester transcripts, upon completion of application materials, except that students ranking in the lowest one-third will be admitted on final probation only. All applicants will be notified of their acceptance immediately by the Admissions Office, upon completion of all application materials and contingent upon evidence of high school graduation.

*Approved by the Board of Governors, October 26, 1964.

Persons who have been out of school one year or more and who were in the lowest one-third of their class may be admitted on final probation in any quarter.

Individuals with High School Equivalency Certificates granted as a result of a General Educational Development Test are admitted in good standing in any quarter.

Out-of-State Freshman Students. Out-of-state freshman students must meet the same admissions requirements as Illinois high school students, except that only those out-of-state students who rank in the upper two-thirds of their high school graduating classes will be considered for admission.

Transfer Students. Transfer applicants who (1) have an average of C (2.0 according to regulations at Eastern Illinois University) or higher in each institution previously attended, and (2) are certified as in good standing by each institution previously attended, are admitted without condition in any quarter.

Transfer applicants who are on probation at their previous institutions or would be on probation or final probation according to regulations of Eastern Illinois University may be considered for any quarter except the fall quarter.

Transfer applicants who have been dropped from any institution of higher education or would have been dropped according to regulations of Eastern Illinois University must remain out of school for one quarter and may be considered by the Committee on Admissions for any quarter but the fall quarter.

Prior to consideration, any applicant referred to in the preceding two paragraphs must submit a letter to the Office of Admissions in which he discusses the reasons for his poor academic record and explains why he believes he is capable of success at Eastern Illinois University.

All parts of the application must be filed with the Admissions Office and be completed by the deadline date indicated on page 57 of the catalog.

Foreign Students. Students from areas other than the United States may be admitted by committee action only.

Former Students in Good Standing. Former students, undergraduate or graduate, who are in good standing and who return to the university after a lapse of one or more quarters must apply for re-admission at least ten calendar days prior to the official registration day of the quarter in which they intend to enroll.

Former Students Dropped for Poor Scholarship. Former undergraduate students dropped for poor scholarship must apply for readmission to the Committee on Admissions.

Special Students. Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as special students. They may be admitted to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. These persons may

become candidates for a degree by passing the General Educational Development Test and obtaining a high school equivalency certificate. In this case, only those college courses taken after passing the examination may be counted toward graduation.

Graduate Students. See Section IX, Graduate Study.

Procedures for Applying for Admission

An application blank may be obtained by writing to the Admissions Office. The blank contains a section to be filled out by the applicant and a section to be filled out by the high school from which the applicant was graduated. The principal of the high school will forward the application to the Admissions Office.

To insure consideration for admission for any quarter, the application blank, personal information blank, and the physical examination blank must be filed with the Admissions Office.

A fifteen dollar non-refundable application fee must accompany each application for admission.

Students who rank in the lowest one-third of their high school class will conform to special instructions obtained from the Admissions Office.

Each freshman applicant will be required to furnish scores from the test battery administered by the American College Testing Program (ACT).

Transfer students must file an application for admission and must request the institution or institutions previously attended to forward transcripts that include all courses attempted and completed to the Admissions Office. The request for a transcript should include a request to transmit scores on entrance examination tests. (For acceptance of credit by transfer, see Section V.)

In addition, prior to consideration, a transfer student not in good standing must submit a letter to the Admissions Office in which he discusses the reasons for his poor academic record and explains why he believes he is capable of success at this university.

Graduate students should see section on Graduate Study.

An Official Permit to Enroll is mailed after an application has been processed and completed. The Official Permit to Enroll must be presented at the time the student registers.

Housing applications must be sent to the Director of Housing (see Section II, Living Accommodations) and may be made at any time, even though the application for admission has not been filed. The application for housing does not constitute an application for admission, nor does the application for admission constitute an application for housing.

Procedures for Applying for Readmission

Former students, undergraduate or graduate, who are *in good standing* and who return to the university after a lapse of one or more quarters must make application for readmission to the Office of Records at least ten calendar days prior to the official registration day of

the quarter in which they intend to enroll. Students enrolled in the summer quarter need not apply for readmission for the ensuing fall.

Former undergraduate students dropped for poor scholarship from Eastern or some other university subsequent to their last enrollment at Eastern must apply for readmission to the Office of Records and the Committee on Admissions. Petition forms may be obtained from the Dean of Men or Dean of Women. Ordinarily, a period of two quarters must elapse before a petition will be considered.

Cut-Off Dates for Completed Applications

All applications for admission must be filed with the Admissions Office and all requirements for admission must be met by the cut-off date specified for the quarter in which the student wishes to enroll. All applications for readmission of former students, graduate or undergraduate, in good standing must be filed with the Office of Records prior to the cut-off date specified and all applications for readmission of former students dropped for poor scholarship must be filed with the Committee on Admissions and all requirements met by the cut-off date specified.

Fall Quarter, 1967 Friday, August 25, 1967

Winter Quarter, 1967-68 . . Friday, November 17, 1967

Spring Quarter, 1968 Friday, February 26, 1968

Summer Quarter, 1968 . . . Thursday, May 31, 1968

The university may announce changes in deadline dates for admission or readmission at any quarter when applications exceed the normal number of students that can be cared for.

REGISTRATION

Registration Procedures

New Students. Instructions for the registration of new students are given in writing, in conferences, and at meetings during orientation periods.

Students Currently Enrolled. Each student currently enrolled during a quarter should submit a Preferred Schedule of classes for his registration for the following quarter. By doing so, the student agrees to complete his registration by advance payment of registration fees. The university assumes no responsibility for accepting an ineligible student's registration. Reservation of a card for any class is subject to the assigned capacity of the class. The schedule for the reservation of cards is planned so that graduate students, seniors, juniors, sophomores, and freshmen have priority in that order. Students who fail to complete the various steps in registration will forfeit the space in class which has been reserved for them.

All students who have not preregistered for a given quarter will register on Registration Day as listed in the university calendar and at times announced in advance of each quarter.

Former Students. Students who return to the university after a lapse of one or more quarters will receive instructions for registration in writing, after they have applied for readmission.

ACADEMIC ADVISEMENT

New Students

Each new student is assigned to an adviser who assists him in the preparation of his academic program. During the orientation days the adviser and the student together plan his courses for the entire year—a procedure known as preregistration. This plan is subject to modification later upon recommendation of the adviser and approval of the Dean of Student Academic Services.

It is expected that the student will have selected one of the curricula of the university and that the student and his adviser will plan courses that are consistent with the university requirements.

Former Students

After application for readmission has been made, assignment of an adviser will be made by the Dean of Student Academic Services, through the Registration and Advisement Office.

Students Changing a Major

Students who wish to change majors should apply in the Registration and Advisement Office after consultation with their adviser. It is important that changes in majors and advisers be made before preregistration or registration.

NEW STUDENT ORIENTATION

Prior to registration, activities are scheduled for acquainting new students with the university. All undergraduates enrolling at Eastern for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the university in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail.

V. Academic Regulations and Requirements

CREDIT

Credit Earned at Eastern Illinois University

The unit of measure is the quarter hour, representing one hour a week for one quarter. It is equivalent to two-thirds of a semester hour.

A regular academic year's work is equivalent to 48 quarter hours. A regular academic year's work in one subject is equivalent to 12 quarter hours. The normal load in one quarter is 16 quarter hours. Credit to seniors enrolled in freshman courses is reduced by 1 quarter hour per course (i.e., student receives 3 quarter hours for a 4 quarter hour course) except that freshman courses in foreign languages may be taken by seniors for full credit.

A statement of the amount of credit is included in the description of each course.

Credit earned in dramatics, glee club, choir, chorus, orchestra, or band is in excess of the total required for graduation except that for those whose major or minor is music. Such students receive credit toward graduation under the title "Ensemble." (Students in elementary education may earn 4 quarter hours in ensemble credit.)

Acceptance of Credit for Other Work

Credit for Courses in Other Colleges. Advanced standing is granted for courses passed in other recognized colleges, the total credit being reduced by a number equal to the grade point deficit if the transcript shows a cumulative grade average less than 2.0. (The cumulative average and the grade point deficit are computed in accordance with procedures applied to records in Eastern Illinois University.) Transfer students must meet all requirements listed under "Graduation Requirements."

Credit for Courses Taken in Foreign Universities. Eastern Illinois recognizes that some students may wish to study at a university in a foreign country. Credits earned in foreign universities in programs sponsored by accredited United States colleges or universities are accepted on the same basis as transfer credits from the United States institutions which sponsor the programs.

Students who successfully complete a Junior Year Abroad program sponsored by an accredited United States college or university are granted exemptions (in addition to the exemptions based on high school records) amounting to 12 quarter hours which may be applied in meeting the general requirements in any bachelor's degree program in the areas of humanities, history, and social science. These exemptions do not reduce the 192 quarter hours of credit required for graduation and they do not reduce the requirements pertaining to majors and minors.

Credit for Junior College Courses. A student may transfer credit in courses passed with a grade of C or higher in accredited junior colleges, subject to the limitation that the last ninety-six quarter hours of credit toward a bachelor's degree must be earned in this or other degree-granting colleges. Courses taken in a junior college may be substituted for required courses of similar content as recommended by proper officials of the university. Junior college courses (and courses numbered on the freshman or sophomore level in degree-granting colleges) may not be used to reduce the minimum requirement of advanced courses even though their content is similar to that of courses numbered 300 or higher in this university. Students who transfer to the university must meet all requirements listed under "Graduation Requirements."

Credit for Military Service. Former members of the armed services who completed basic training are allowed four quarter hours credit in Health Education 120 on application and are exempted from required physical education courses. This does not apply to those having less than one year of full-time active duty service. An exception to this rule also obtains for students taking a major in physical education. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in the Handbook of the American Council on Education are used as a basis for such evaluation. Credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the university.

Credit for Correspondence and Extension Courses. Correspondence and extension courses taken from accredited colleges and universities may be submitted for evaluation for advanced standing toward a baccalaureate degree. The total credit accepted toward graduation may not exceed forty-eight quarter hours in correspondence and/or extension courses. Credit toward graduation for such courses if taken in whole or in part during a period of residence study at Eastern Illinois University is subject to permission granted by the Dean of Student Academic Services in advance of enrollment and to subsequent completion in accordance with the conditions governing the permission. When students are enrolled simultaneously in any combination of residence, extension and correspondence courses, the total credit accepted may not exceed the maximum residence credit for which the student would be eligible during the period in question.

Application for permission must include the proposed starting date of the course, the proposed completion date, and the proposed periods of work. If the course is not completed in accordance with this schedule, an extension of time granted by the Dean of Student Academic Services is required in order for the course to be considered subsequently for credit toward a degree. Documentary verification of compliance with the regulations may be required by the Dean of Student Academic Services.

Credit for College-Level General Educational Development

Tests. No credit toward graduation is allowed for college-level General Educational Development tests.

Credit by Proficiency Examinations

Proficiency examinations may be taken for credit in undergraduate courses offered in the university in accordance with the following regulation:

1. The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within sixteen quarter hours of graduation.
 - c. Be a teacher who has been working regularly toward the degree Bachelor of Science in Education.
 - d. Be in full-time residence in the summer immediately preceding the year in which application is made.
2. The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
3. The applicant must obtain a recommendation in writing from the department head and approval from the Vice President for Instruction before the examination may be taken. The applicant should present evidence of independent study or of equivalent work taken in non-accredited schools.
4. An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for more than one quarter of work in advance of the course in which the examination is requested.
5. Proficiency examinations may not be used to remove grades of F or to raise grades.
6. In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol Cr is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
7. Credit earned by proficiency examinations may be counted toward a bachelor's degree subject to all of the rules that would apply if the same course had been taken in regular class attendance.
8. Permission shall not be granted for examinations in shop, studio, or laboratory courses in which the actual laboratory experience is an important factor in determining the course grade. An exception can be made when the course work has been done in a non-accredited learning situation.
9. Proficiency examinations may not be given for credit in required physical education or applied music.

10. When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the head of the department.

CLASSIFICATION OF STUDENTS

Undergraduate students are classified as follows, including nominal credit courses:

Freshmen	0 through 42 quarter hours
Sophomores	43 through 89 quarter hours
Juniors	90 through 141 quarter hours
Seniors	142 quarter hours and over

Graduate students are defined as students who have completed all requirements for a bachelor's degree and have applied for and been admitted to take graduate courses.

ACADEMIC STANDING

Grades

The grades given in courses are as follows:

Grade	Description	Grade Point Value
A	Excellent	4
B	Good	3
C	Fair	2
D	Poor but passing	1
F	Failure	0
E	Incomplete	---
WP	Withdrew—passing	---
WF	Withdrew—failing	0
AU	Audit	---
Cr	Proficiency Credit	---
NC	Eng. 120 unsatisfactory	---
S	Student teaching satisfactory	0
U	Student teaching unsatisfactory	0

The grade of E may be given when because of illness or some other important reason the student's normal progress in a course has been delayed. The student shall have an instructor-approved plan for completion of work no later than the end of the next quarter the course is offered and in which he is in residence. If the plan is carried out, the grade earned by the student replaces the grade of E; otherwise the grade of E remains on the student's record. The time restriction does not apply to the formal graduate papers required for the master's degree.

Grade-Point Average*

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of quarter hours which may be earned in the course. The grade point average is computed by dividing the total number of grade points which a student has earned in all courses taken at Eastern Illinois University by the total number of quarter hours represented by those courses (excluding courses in which a student has grades of E, WP, AU, Cr or NC).

Grade-Point Deficit*

If the grade-point average is less than 2.0, a grade-point deficit exists. This is computed by subtracting the grade-point total from twice the total number of quarter hours. (This is equivalent to defining the grade-point deficit as the number by which the grade-point total would have to be increased in order to have a grade-point average of 2.0.)

Good Standing

A student who has completed at least one quarter at Eastern Illinois University and who has attended as a full time or part time student (in this college and other colleges, if any) less than four quarters is considered in good standing unless he has a deficit greater than four points in courses taken at Eastern Illinois University; if he has attended four or more quarters, he is considered in good standing if his grade point average in courses taken at Eastern Illinois University is 2.0 or higher.

For the purposes of this section, three terms at this university, either summer terms or quarters, shall be interpreted as one year; one semester, summer term, or quarter in another college shall be interpreted as one quarter; two semesters in another college shall be interpreted as one year.

Any quarter in which a student registers in the university will be considered as a quarter attended. In case a student withdraws during a quarter for reasons beyond his control, the Committee on Admissions may, upon petition of the student at the time of withdrawal, authorize that the quarter not be counted as a quarter attended.

Probation

A student whose record falls below that required for good standing, but not so low as to be subject to exclusion, is placed on probation.

*An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 4, 4, 1, and 4 quarter hours respectively, the grade-point average and grade-point deficit are computed as follows:

Grades	Quarter Hours	Grade Points	Computation
A	2	8	G.P.A. = 29 divided by 15 = 1.93
B	4	12	
C	4	8	
D	1	1	G.P.D. = 2×15 minus 29 = 1.
F	4	0	
	<hr/> 15	<hr/> 29	

Final Probation

A student who has attended for one quarter on probation and whose record at the close of that quarter or at any subsequent time falls below that required for good standing, but not so low as to be subject to exclusion, is placed on final probation. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

Extended Final Probation

A student who during a quarter of final probation reduces his grade point deficit by at least four points will be classified as on extended final probation, and be subject to all the rules which govern final probation.

Exclusion (Dropped)

A student is dropped for low scholarship (1) if at the end of a quarter on Final Probation he has neither attained good standing nor qualified for "Extended Final Probation" (2) if after reattaining good standing, he fails at any time to maintain good standing, or (3) if at any time his record shows a cumulative grade point deficit greater than twelve. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

Any student expected to take English 120 at Eastern Illinois University will be dropped for lack of English proficiency if he has not achieved credit in English 120 before he attains junior standing. Any student transferring to Eastern Illinois University without a B average in English 120 and 121 or their equivalent will be dropped for lack of English proficiency if he has not demonstrated such proficiency by the end of his fourth quarter of residence or by the time he attains junior standing, whichever time is the later.

Reinstatement

A student who has been dropped for low scholarship may be readmitted only by action of the Committee on Admissions. Ordinarily a period of two quarters must elapse before a petition will be considered, although the student has the right of petition at any time. Petition forms may be obtained from the Dean of Men or the Dean of Women.

If a student who has been dropped with a deficit *greater than twelve* is readmitted by the Committee on Admissions *after at least one calendar year has elapsed*, his previous record is evaluated as follows: the amount of credit toward graduation is limited to the total represented by the courses previously passed with grade of C or higher and subsequent computations of grade-point averages are based on work done after readmission. Such a student may be readmitted only on final probation. A given individual may have no more than one opportunity for readmission on these terms.

If a student who has been dropped with a deficit not greater than twelve is readmitted by the Committee on Admissions, or if a student with a deficit greater than twelve is readmitted before at least one

year has elapsed, he may be given by the committee up to three quarters to attain good standing. His privilege of attending is cancelled, however, if at the end of any of the quarters so specified he has not either attained good standing or made an average gain of four grade points per quarter.

Honors

Graduation honors for baccalaureate degrees are computed on the basis of the scholarship record at the end of the winter quarter of the year of graduation or at the end of the spring quarter in case of graduation in the August commencement. To be eligible for graduation honors a student must have been in full time residence for at least six quarters or the equivalent in summer terms.

A student whose grade-point average is at least 3.40 but less than 3.75 is graduated with honors; one whose grade-point average is 3.75 or higher is graduated with high honors.

Graduation honors are noted on the diploma and announced at commencement.

Quarter honors are recommended on the same basis as graduation honors. To be eligible for honors in any quarter, the student must have carried at least fourteen quarter hours of courses exclusive of service courses in physical education and nominal credit in music organizations.

Scholarship Requirements for Graduation

See: Graduation Requirements.

ACADEMIC LOAD

Undergraduate Student

Normal Load. A normal load of work for an undergraduate student in any of the three quarters of the school year or in the summer quarter is sixteen quarter hours of regular academic courses except when the curriculum calls for a different load.

Overloads. Subject to exceptions set forth below, an undergraduate student may register for as many as *twenty quarter hours* if (1) his cumulative grade point average is at least 3.0, or (2) his cumulative grade point average for the last three quarters immediately past is at least 3.0. A student may register for *eighteen quarter hours* if his cumulative grade point average is at least 2.75.

No student may register for additional work during (1) his first quarter of residence in the university (2) a quarter in which he is taking four quarter hours or more of student teaching (3) a ten-week summer quarter.

Any music major who is in good standing may register for eighteen quarter hours, including two quarter hours in applied music, except during the times specified above. Ensemble credit is not counted in computing overloads for music students except that no student may earn more than sixty quarter hours including ensemble

credit in three consecutive quarters regardless of cumulative average. He may carry one hour overload during student teaching if he must do his recital when doing student teaching and if his grade-point average makes him eligible.

A speech correction major may carry eighteen hours when enrolled for advanced clinical practice.

A women's physical education major may carry two service courses in addition to the normal sixteen-hour load in any quarter.

Graduate Student

A graduate student is restricted to sixteen quarter hours during a fall, winter or spring quarter and twelve quarter hours during the summer term.

ATTENDANCE AT CLASSES

Students are expected to attend all classes for which they are registered unless prevented by illness or some other urgent reason.

A student who is absent for serious illness or because of death or illness in the immediate family is expected to notify the Dean of Men or Dean of Women the first day of his absence, if possible, so that his instructors may in turn be notified.

When a student knows in advance that he will be absent, it is his duty to notify his instructor. When he does not know of it in advance, he has the obligation to explain his absence on returning.

A student who is absent immediately before or immediately after a vacation period is not accorded the privilege of making up work missed, unless it is definitely established through the University Health Service and the Dean of Men or Dean of Women that the student has been too ill to attend or that there has been a death or serious illness in the immediate family.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Vice President, Dean of Men, Dean of Women, or the Dean of Student Academic Services upon request.

Instructors are expected to report to the Dean of Men or Dean of Women the name and attendance record of any student whose absences have become a matter of concern. A student whose record has been so reported may be denied permission by an instructor to re-enter class until he presents a statement from the Dean of Men or Dean of Women. In the event that the student has missed classes for reasons acceptable to the Dean of Men or Dean of Women, he is entitled to a reasonable amount of help from the instructor in making up work missed. In the event that the reason for excessive absence is not acceptable to the Dean of Men or Dean of Women, the student may be required to withdraw from the course. In aggravated cases of failure to attend classes he may be dropped from the university by action of the Council of Administrative Officers on recommendation of the Dean of Student Personnel Services.

WITHDRAWAL FROM A COURSE

A student may drop a course within the first thirty-four school days following registration day upon the recommendation of his adviser and the approval of the Dean of Student Academic Services. Drop slips may be obtained from the Registration Office.

No student may drop a course after the thirty-fourth school day following registration day unless illness, certified by the University Physician, or extended absence from the campus, certified by the Dean of Men or Dean of Women, has caused the student to drop behind to the point where his load must be lightened.

For grades upon withdrawal, consult bottom of this page.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the university before the end of a quarter or summer term must report to the Dean of Men or Dean of Women to obtain a withdrawal form. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be turned in to the Registration Office.

If a student withdraws from the university and his initial notice of intention to withdraw is made to the Dean of Men or Dean of Women during the first ten calendar days following the first day of classes for the quarter, the registration fee will be refunded. The notice of intention to withdraw should be made in person although a letter addressed to the Dean of Men or Dean of Women declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice. If the tenth day falls on Sunday or within a stated vacation period, the next school day is considered as the tenth day. If the tenth day falls on a Saturday, then the Friday prior to the Saturday shall mark the final day of the ten day period.

No student may initiate a withdrawal from the university within the last three school days prior to the date of the first regularly scheduled final quarterly examination.

Policies covering the withdrawal of students from school because of a call to active military duty have been developed by the Council on Academic Affairs.

Recording of Grades Upon Withdrawal

If a student drops a course or leaves the university on or after the tenth school day of the quarter, he will be given WP in any course in which he is doing passing work; he will be given WF if he is doing failing work. The grade of WF must be recorded if prior to the date that the withdrawal was formally initiated by the student,

the number of "unjustified" absences has been great enough so that the student cannot be considered as having done the work of the course to date.

When illness or other medical reasons, certified by the University Physician, require a student to withdraw from a course or from the university, the grade will be WP or WF depending on whether the student was passing or failing at the time of the onset of the illness.

When a first-quarter freshman leaves school within the first twenty-five days of classes, grades of WP will be recorded in all courses.

A student who is carrying an overload may reduce his schedule to a normal load at any time during the first thirty-four calendar days of the quarter and receive the grade of WP in the course dropped.

If a student discontinues attendance in all classes without withdrawing officially, grades of F are recorded in all courses.

The grade of WF carries the same grade-point implications as the grade of F.

GRADUATION REQUIREMENTS

Responsibility of Students

It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the adviser will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

Course Requirements for the Baccalaureate Degrees

The official course requirements for the baccalaureate degrees are given in Sections VI and VII.

Total Credits Required

The minimum credit for a baccalaureate degree is 192 quarter hours exclusive of service courses in physical education and any other nominal credit courses. Nominal credit is defined as credit which may apply only in excess of the minimum requirements.

Residence

At least 48 quarter hours must be earned in residence during the junior and senior years. A minimum of 64 quarter hours must be completed in residence at this institution.

Special Examinations

An examination on the Declaration of Independence, the proper use and display of the flag and the constitutions of the United States and of Illinois must be passed by all candidates for graduation. An exemption from this requirement may be obtained by students who receive a grade of C or better in each of Political Science 110, 111, 112 and who apply to the Records Office.

English Proficiency

Proficiency in English must be demonstrated. See the statement in the English Department course descriptions, Section X.

Advanced Courses

Sixty-four quarter hours of credit in courses numbered 300-549 must be earned in the baccalaureate degree programs. In the case of students who enter with advanced standing, courses not open to freshmen and sophomores in schools previously attended may be included in this total.

Grade-Point Average

An average of 2.0, with not more than forty-eight quarter hours of grades below C, is required for graduation. The grades in the major must average 2.0 or higher.

Credit for Courses in Education

Courses in education and methods of teaching are accepted only toward the Degree Bachelor of Science in Education. Enrollment in these courses is restricted to students who have been accepted as teacher education candidates.

Application for Graduation

Degrees are conferred at the close of the fall, winter, spring, and summer quarters to students who complete all requirements for graduation. Students completing their work at the close of the fall or winter quarters will receive their diplomas and may elect to participate in the spring commencement exercises. Students completing graduation requirements in the spring or summer are required to participate in the commencement exercises unless excused by the Vice President for Instruction. Students entitled to participate in commencement exercises are:

1. Those who graduate at the end of fall and winter quarters.
2. Those whose current enrollment in correspondence, extension, and residence at this university or elsewhere makes possible the completion of all graduation requirements by the close of the quarter in which commencement is held.

Students apply for graduation upon completion of 128 quarter hours of course work. All requirements for degrees must have been completed by the close of the quarter in which graduation is sought. It is the student's responsibility to notify the Office of Records of any non-campus courses being taken which will complete the requirements for graduation. Applications for graduation may be obtained at the Office of Records. The application is completed by the student and validated by the Cashier when the graduation fee is paid.

Deadline dates for application for graduation:

Fall Quarter.....	September 5, 1967
Winter Quarter.....	November 28, 1967
Spring Quarter.....	March 6, 1968
Summer Quarter.....	June 28, 1968

The graduation fees are as follows: \$10.00, bachelor's degree; \$15.00, master's degree.

Certification

B.S. in Ed. Degree. Candidates for the degree B.S. in Ed. are responsible for fulfilling any special certification or accreditation requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates or transcripts indicating that the student has completed his degree cannot be issued, even for one who finishes his work in the fall or winter quarters, until the student meets all requirements of the section on Graduation Requirements.

Administrative Certification. Graduates of an approved program in administration should make application for cards of entitlement with the Department of Supervision and Administration, Faculty for Professional Education.

Placement Office

Registration with the Placement Office is prerequisite to graduation with any degree.

Photograph

A photograph, size not larger than one and one-half inches by two and one-half inches, is required of each candidate for graduation for the university files.

TRANSCRIPTS

The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certifying agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request forms supplied by the Records Office.

The time for preparation and mailing of transcripts varies with the season of the year. During registration and quarter end there may be a delay of several days.

A fee of one dollar will be charged for each transcript issued after the first one. Fifty cents will be charged for each extra copy of the transcript when more than one is made at the same time.

AUDITING OF COURSES

Provisions for auditing courses may be made under certain circumstances.

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of registration from "audit" to "credit" or from "credit" to "audit" may be made only during the first ten days of the quarter.

VI. Undergraduate Degrees

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student, not the adviser, has the ultimate responsibility to fulfill the requirements for the degree, to check his own eligibility to take courses, and to observe the academic rules governing his program. The adviser's role is to assist him in making important decisions.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, is conferred upon successful completion of a minimum of 192 quarter hours, exclusive of nominal credit, in courses which satisfy three sets of requirements: General requirements, professional education requirements, and specialization. If courses in the specialization satisfy the definitions of the fields for the general requirements, they may be applied also in partial fulfillment of general requirements.

General Requirements

English Composition, freshman level (English 120, 121)	8 quarter hours
English Composition, sophomore level (English 220)	4 quarter hours
English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher.	
Speech (Speech 131)	4 quarter hours
Health Education (Health Education 120)	4 quarter hours
Natural Sciences	16 quarter hours

The natural sciences are classified in two fields: biological sciences (botany, zoology, and general biology) and physical sciences (physics, chemistry, and physical science).

Twelve quarter hours of this requirement must be in one field, except that this provision does not apply to students in the School of Elementary and Junior High School Teaching where the general requirements are eight quarter hours in each field. (For students who entered prior to September 1, 1963, the total science requirement is twelve quarter hours in one field.)

The natural science requirement may be reduced by four quarter hours if the student presents one or more accepta-

ble units¹ in a science in which laboratory work was required. The remaining twelve quarter hours must be taken in the field different from that in which the exemption is taken. (This paragraph applies only to students who entered Eastern after September 1, 1963.)

Social Studies 20 quarter hours

The social studies are defined to include history, political science, economics, sociology-anthropology, and geography. At least twelve quarter hours must be taken in one of these subjects. At least four quarter hours must be in United States history.

This requirement may be reduced by four quarter hours for one acceptable unit in high school or by eight quarter hours for two or more acceptable units. In case exemptions are granted, the requirement of twelve quarter hours in a single subject is reduced to eight quarter hours. This does not alter the requirement that four quarter hours must be taken in a college course in United States history.

Humanities 24 quarter hours

This area is defined to include three groups of subjects: Group A—Philosophy and Literature; Group B—Music and Art; Group C—Foreign Languages.

The normal requirement of twenty-four quarter hours must be met by taking twelve quarter hours in each of two of these groups. Where an approved course in literature in a foreign language is offered toward Group A it may not simultaneously satisfy a requirement under Group C.

If Group C is chosen, the twelve quarter-hour requirement will be considered as completely satisfied by two acceptable units in a single language. A student with less than two acceptable units will meet the total requirement when he has passed the third quarter college course or any more advanced course in that language.

Regardless of exemptions, a student must take a minimum of sixteen quarter hours of college work in the humanities.

Mathematics 4 quarter hours

The mathematics requirement is satisfied by a mathematics course other than a course in methods of teaching mathematics.

Students may be exempt from this requirement if they passed any mathematics course in high school beyond two years of

¹ An acceptable unit is defined as two semesters of high school work in the same subject taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.

Exemptions do not establish college credit. They free the student for greater flexibility in planning his college courses by permitting more elective credit. Students who are not eligible for exemptions under the rules above may apply for examination in high school subjects in which they feel confident that they have adequate background.

college preparatory mathematics. Algebra, plane geometry, solid geometry, and trigonometry are considered college preparatory mathematics courses; courses of newer types now offered in certain high schools may be ruled by the Department of Mathematics to be college preparatory courses.

Physical Education (nominal credit).....	(6 quarter hours)
Total (subject to possible exemptions).....	84 quarter hours
(nominal credit not included)	

Professional Education Requirements

Admission to teacher education is prerequisite to admission to courses in professional education numbered 300 or higher, to departmental methods, and to teaching practicum.

Psychology 231.....	4 quarter hours
Professional education courses.....	12 quarter hours
Education 445 is required in all curricula. Education 332 and 333 are prescribed for the curricula for high school and special area teachers. Professional education courses for elementary and junior high school teachers are included in the curriculum outlines.	
Departmental methods courses.....	0 to 8 quarter hours
See section on majors and minors.	
Teaching Practicum (Education 441, 442, 443).....	12 quarter hours
Students are urged to add Education 444, making the total 16 quarter hours.	
Total.....	28 to 36 quarter hours

Specialization

The specialized curricula for high school teachers, special area teachers, junior high school teachers, and elementary school teachers are described in sections which follow. The curricula for high school teachers lead to the Illinois Standard High School Certificate. The curricula for special area teaching lead to the Standard Special Certificate. The curriculum for junior high school teaching leads to the Standard High School Certificate. The curriculum for elementary school teaching leads to the Standard Elementary Certificate.

The high school curricula require the completion of a departmental major and minor or an interdisciplinary major. The Special Certificate curricula do not require minors.

Admission to Teacher Education

Admission to the university does not of itself admit a student to teacher education.

Criteria for Admission. Admission to teacher education is determined by the Council on Teacher Education. This council will require for its consideration:

1. A formal application from the student (see below).
2. Grades which average 2.10 or higher.
3. Evidence that proficiency in English as a prerequisite to graduation has been met.
4. A recommendation from the student's major department.
5. A recommendation from the University Physician.
6. A recommendation from the Speech and Hearing Clinic.
7. A record of the scores made by the student in entrance tests and subsequent tests administered to students.
8. A statement from the Dean of Student Personnel Services.

Failure of a student to gain admission to teacher education by the close of the quarter in which he will have earned 120 quarter hours (excluding nominal credit courses), or failure by a transfer student who entered with 84 or more quarter hours in accepted credit to receive approval by the end of his third quarter of residence at Eastern Illinois University, is equivalent to rejection of the application. A student who does not gain admission to teacher education may not continue as a candidate for the degree, Bachelor of Science in Education.

Application for Admission. Application blanks for admission to teacher education may be obtained at the Office of the Dean of the Faculty for Professional Education. Policies governing admission to teacher education are as follows:

Curricula for High School and Special Area Teachers.

The student must make application for admission to teacher education no earlier than the quarter in which he will complete 40 quarter hours of credit and no later than the quarter in which he will have completed 100 quarter hours of credit. Enrollment in departmental methods courses or in courses in education is not permitted until after admission to teacher education.

Elementary and Junior High School Education.

Students are considered as tentatively enrolled in the curricula for elementary and junior high school teaching until admitted to teacher education. They will submit applications for admission at the same time as students in the high school curricula. Enrollment in methods courses and education courses, except Education 120, 121, and 232, is deferred until after admission to teacher education.

Transfer and Extension Students.

Transfer students who enter with freshman or sophomore standing must be admitted to teacher education before they are permitted to earn credit in departmental methods or education courses. Transfer students with junior or senior

standing may carry such courses on a tentative basis while their applications for admission to teacher education are being processed and considered.

A person with a baccalaureate degree from a recognized college or university may take departmental methods courses and education courses without formal admission to teacher education but may enroll in teaching practicum only after admission to teacher education.

Teachers in service may take departmental methods courses and education courses in extension, or on a part-time basis in residence classes, without admission to teacher education but must apply for admission to teacher education upon re-registering for full-time residence work.

Late Application.

Students who have followed a program which leads to a degree other than Bachelor of Science in Education and who have earned more than 120 quarter hours may make application for admission to teacher education but must make up deficiencies in the curriculum leading to the degree, Bachelor of Science in Education. No privileges will be accorded in the way of acceleration of either the professional or academic requirements of that curriculum or the waiving of course prerequisites.

Teaching Practicum (Education 441, 442, 443, 444)

OBJECTIVE

It is the objective of the teaching practicum to provide a comprehensive experience in harmony with the needs of the student, his ability, interest and initiative, his special talents, and the facilities of the school system and community.

REGULATIONS AND STANDARDS

1. Admission to teacher education is prerequisite to admission to teaching practicum.
2. Students in a high school curriculum must have completed Education 332, 333, Psychology 231, and any required departmental methods courses for the subjects to be assigned them.
3. Students in the curriculum for elementary teachers must have completed Education 324 and 328 and, in the case of the kindergarten option, Education 334. Students in the junior high school curriculum must have completed Education 311, 312, and Education 313 or 314, or equivalent courses approved by the Director of the School of Elementary and Junior High School Teaching.
4. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students in high school curricula must also have an average of 2.10 in their teaching fields at the time of application.

5. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
6. Transfer students must have been in residence at Eastern Illinois University for at least one quarter or one summer term.
7. A physical examination must have been completed in the University Health Service at least one quarter prior to the teaching practicum assignment.
8. Students enrolled in either full-time or part-time off-campus teaching must assume the necessary transportation, room, and board expenses.
9. Students who participate in full-time off-campus teaching should live in the community in which they do their teaching and are expected to observe the local school calendar.
10. Students engaged in the teaching practicum are expected to participate in such activities as guidance programs of the school, audio-visual programs, study hall supervision, preparation of assembly programs, field trips, dramatics, attendance at P.T.A. meetings, faculty meetings, if invited, and participate as faculty members in as many of the activities of the school and community as possible.
11. Attendance is expected at a series of seminar meetings related to the teaching practicum held for prospective high school and special area teachers. Details are distributed through the Office of the Dean of the Faculty for Professional Education.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area, in the public schools of the Chicago area in the case of some students in the elementary and junior high school curriculum, and in the campus laboratory school.

1. Applications for high school assignments are made to the Dean of the Faculty for Professional Education at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinator and approved by the Dean of the Faculty for Professional Education. Students must have clearance with the Director of the School of Elementary and Junior High School Teaching for any assignment in Buzzard Laboratory School.
2. Applications for elementary and junior high school assignments are made to the Director of the School of Elementary and Junior High School Teaching at least one quarter in advance of the quarter in which teaching is desired. Assignments are made through the director's office.
3. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule.

4. The student's schedule must provide for teaching practicum either all day for one quarter or one-half day for two quarters.
5. A student engaged in teaching practicum is limited to a total load of sixteen quarter hours, except that music students may add a senior recital and speech correction students may do a limited amount of clinical practice. The number of hours of outside work permitted is restricted.

CURRICULUM FOR ELEMENTARY TEACHERS

This curriculum requires a choice of one of three options: Early Childhood (kindergarten and grades one, two, and three); Intermediate (grades four, five, and six); and Comprehensive (grades one through eight).

Two subject area concentrations must be chosen by the student.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and the adviser must cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Biology 116, 117	8
Education 120, 121	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 121, 220	8-12

English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher.

American Literature (one course)	4
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 244 or 245 or 246 or 247 or 248	4
Mathematics 122, 123	6
Music 120, 328	8
Physical Education, Women, 360	2
Physical Science 100 or Physics 130; Physical Science 101 or Chemistry 120 or Chemistry 150	8
Psychology 231	4
Speech 131	4
Subject Concentration, Area I	24
Subject Concentration, Area II	12

Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions; the special requirements for the chosen option given below; and electives, if necessary, to complete 192 quarter hours.

Physical Education service courses (nominal credit) .. (6)

Students may offer as elective credit 4 quarter hours earned in choral ensemble in the music organization.

SPECIAL REQUIREMENTS OF OPTIONS

Early Childhood Education

Mathematics 320, Art 244 or Industrial Arts 224, English 322, Education 334.

Intermediate

Mathematics 321, Industrial Arts 225 or Art 244.

Comprehensive

Mathematics 320 or 321, or preferably both; Art 244 or I. A. 224 or 225.

SUBJECT AREAS OF CONCENTRATION

Areas of concentration consist of courses taken in addition to the university General Education Requirements. No deviation from courses indicated here is permitted without approval of the Dean of Student Academic Services.

Art

Area I. Art 244; Art 245, 309, 319, 465; 4 quarter hours elective credit in art courses. Total, 24 quarter hours exclusive of Art 140.

Area II. Art 244; 8-12 quarter hours selected from Art 245, 309, 319, 465. Total, 12 quarter hours exclusive of Art 140.

Art—Industrial Arts

Area I: Choose Option A, B, or C.

Option A. Art 244; 8-12 quarter hours chosen from Art 245, 247, 309, 319, 465; Industrial Arts 244 or 225; 4-8 quarter hours chosen from Industrial Arts 134, 231, 259, 452. Total, 24 quarter hours.

Option B. Art 244; 12-16 quarter hours chosen from Art 245, 247, 309, 319, 465; Industrial Arts 224 or 225; Industrial Arts 452. Total, 24 quarter hours.

Option C. Art 244; 4-8 quarter hours chosen from Art 245, 247, 309, 465; Industrial Arts 224 or 225; eight quarter hours chosen from Industrial Arts 134, 231, 259. Total, 24 quarter hours.

Biological Science

Area I: Botany 218, 234, Zoology 338, 350, four quarter hours in botany, four quarter hours in zoology. Total, 24 quarter hours.

Area II: Botany 218, Zoology 338, four quarter hours in botany or zoology. Total, 12 quarter hours.

Note: Botany 120, 121, Zoology 120, 121, 122 may not be offered toward Area I or Area II.

English

- Area I: English 126 or 226; 246 or 247; 250 or 251 or 252; twelve quarter hours elective credit in courses in English other than 120, 121, 220. Total, 24 quarter hours.
- Area II: English 126 or 226; 246 or 247; four quarter hours elective credit in courses in English other than 120, 121, 220. Total, 12 quarter hours.

Foreign Language

- Area I: 24 quarter hours in a single foreign language.
- Area II: 12 quarter hours in a single foreign language.
- Note: Placement in a foreign language is described in the foreign language section of the course descriptions, Section X.

Geography

- Area I: Geography 151 or 302; 300; 360 or 387; twelve quarter hours elected from 370, 451, 452, 453, 454, 455. Total, 24 quarter hours.
- Area II: Geography 151 or 302; 300; 360 or 387. Total, 12 quarter hours.

History

- Area I: Eight quarter hours selected from History 233, 234, 235; eight quarter hours from 244, 245, 246, 247, 248; eight quarter hours selected from history courses numbered 300 or above. Total, 24 quarter hours.
- Area II: Four quarter hours from History 233, 234, 235; four quarter hours from 244, 245, 246, 247, 248; four quarter hours from history courses numbered 300 or above. Total, 12 quarter hours.

Home Economics—Health Education

- Area II: Home Economics 303; Health Education 320; four quarter hours from Home Economics 131, 300, Health Education 330. Total, 12 quarter hours.

Industrial Arts

- Area I: Industrial Arts 134, 140, 231, 259; eight quarter hours chosen from 224, 225, 452. Total, 24 quarter hours.
- Area II: Four quarter hours selected from Industrial Arts 134, 140, 150, 231, 259; eight quarter hours from 224, 225, 452. Total, 12 quarter hours.

Library Science

- Area I: Library Science 320, 430, 450, 460, 490; 330 or 332. Total, 24 quarter hours.
- Area II: Twelve quarter hours chosen from Library 320, 330, 332, 460.

Mathematics

- Area I: Mathematics 130, 131, 134, 227; eight quarter hours from courses in mathematics numbered above 200. Students exempted on basis of proficiency test from Mathematics 131 and/or 130 will substitute additional courses numbered above 200 to bring the total for Area I to 24 quarter hours.
- Area II: Mathematics 130, 131, 134. Students exempted from Mathematics 131 and/or 130 will substitute courses numbered above 200 to bring the total for Area II to 12 quarter hours.

Mathematics—Science

Eight quarter hours from Mathematics 130, 131, 134 or 227; twelve quarter hours from Physics 131, 132; Chemistry 121 or 150; Chemistry 122 or 151 (a minimum of 4 quarter hours must be selected from physics and 4 quarter hours from Chemistry); Geography 140, 300 or 301; Botany 218; Zoology 338. Total, 36 quarter hours.

Music

- Area I: Music 221, 222, 225; four quarter hours chosen from Music 320, 321, 322; eight quarter hours from 136, 137, 138, 146, 147, 148, 200, 201, 231, 320, 321, 322, 380; applied music, ensemble. Total, 24 quarter hours.
- Area II: Music 221, 222, 225. Total, 12 quarter hours.

Physical Education

- Area I: Physical Education (W) 361, 362, 363, 413; eight quarter hours from 131, 132, 356; Physical Education (M) 228, 351. Total, 24 quarter hours.
- Area II: Physical Education (W) 361, 362, 363. Total, 12 quarter hours.

Physical Science

- Area I: Physics 130, 131, 132; Chemistry 120, 121, 122 or 150, 151, 152. Total, 24 quarter hours.
- Area II: Eight quarter hours in chemistry and four quarter hours in physics or eight quarter hours in physics and four quarter hours in chemistry. Total, 12 quarter hours.

Social Studies

- Area I: History 235, 248; Geography 300 or 302; Sociology 271, 472; select four quarter hours from Political Science 112 or Economics 254. Total, 24 quarter hours.
- Area II: Geography 300 or 302; select eight quarter hours from Sociology 271 or Psychology 447; Political Science 112; Economics 254. Total, 12 quarter hours.

Speech

Area I: Speech 232; Theater Arts 132, 133, 333, 431; Speech Correction 260. Total, 24 quarter hours.

Area II: Speech 232 or Theater Arts 431; Theater Arts 132, 133. Total, 12 quarter hours.

Speech Correction

Area I: Theater Arts 132, 133; Speech Correction 260, 451, 452, 456. (Prerequisite of Speech Correction 455 waived.) Total, 24 quarter hours.

Area II: Theater Arts 132, 133; Speech Correction 260. Total, 12 quarter hours.

CURRICULUM FOR JUNIOR HIGH SCHOOL TEACHERS

This curriculum is intended to prepare teachers for grades seven, eight, and nine of the public schools. The student must choose a major field of specialization and a minor field of specialization, or three minor fields of specialization.

REQUIRED COURSES

The following constitutes the list of requirements. The student and the adviser cooperate in planning the sequence.

Biology 116, 117.....	8 qtr. hrs.
Education 120, 121.....	2
Education 232, 311, 312, 445.....	16
Education 313 or 314.....	4
Education 441, 442, 443.....	12
English 120, 121, 220.....	8-12

English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher.

Geography 150.....	4
Health Education 120.....	4
History 233 or 234 or 235.....	4
History 244 or 245 or 246 or 247 or 248.....	4
Mathematics 125.....	4
Physical Science 100, 101.....	8
Psychology 231, 352.....	8
Speech 131.....	4

Major subject field (48 quarter hours) and a minor subject field (30-36 quarter hours), or three minor fields.....90-108

Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions, and elective courses, if necessary, to complete a minimum of 192 quarter hours.

Physical Education service courses (nominal credit).....(6)

SUBJECT FIELD SPECIALIZATION**Art**

Field II: 140, 244, 247, 309, 319, 465; select twelve quarter hours other than 245. Total, 36 quarter hours.

Biological Science

Field I: Biology 116, 117; Botany 218, 230, 234; four quarter hours elective in botany; Zoology 212, 336, 338, 350; eight quarter hours elected from botany or zoology. Total, 48 quarter hours.

Field II: Biology 116, 117; Botany 218, 234; four quarter hours elective in botany; Zoology 338, 350; four quarter hours elective in zoology; four quarter hours elective in botany or zoology. (Students may not elect Botany 120, 121, or Zoology 120, 121, 122). Total, 36 quarter hours.

English

Field I: 120, 121, 220 or four quarter hours elective; 250 or equivalent American literature course; Speech 131; English 126, 226; 246 or 247; 326 or 327; Library Science 332; eight quarter hours of upper division English electives. Total, 48 quarter hours.

Field II: 120, 121, 220 or four quarter hours elective; 250 or equivalent American literature course; Speech 131; English 126; 246 or 247; Library Science 332; four quarter hours English electives. (Recommended electives, English 226 or 364. Total, 36 quarter hours.

French

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: 130, 131, 132, 230, 231, 232, 333, 334, 335, 340; eight quarter hours French electives selected from 450, 451, 452. Total, 48 quarter hours.

Field II: 130, 131, 132, 230, 231, 232, 333, 334, 340. Total, 36 quarter hours.

German

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: 130, 131, 132, 233, 234, 235, 340, 353, 354, 355; eight quarter hours selected from 453, 454, 455. Total, 48 quarter hours.

Field II: 130, 131, 132, 233, 234, 235, 340, 353, 354. Total, 36 quarter hours.

Latin

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: 120; 121; 122; 220, 221, 222 or 310, 311, 312; 330, 331, 332, or 433, 434, 435; 340; eight quarter hours from 330, 331, 332, 433, 434, 435, 450, 451, 452. Total, 48 quarter hours.

Field II: 120; 121; 122; 220, 221, 222 or 310, 311, 312; 330; 331; 340. Total, 36 quarter hours.

Russian

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field II: 140, 141, 142, 250, 251, 252, 360, 361, 363. Total, 36 quarter hours.

Spanish

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: 130, 131, 132, 230, 231, 232, 340, and twenty-four quarter hours in advanced courses. Total, 52 quarter hours.

Field II: 130; 131; 132; 230; 231; 232; 310, 311 or 456, 457; 340. Total, 36 quarter hours.

Geography

Field II: 140; 150; 142 or 300; 151 or 302; 360 or 387; sixteen quarter hours from 370, 451, 452, 453, 454, 455, 470. Total, 36 quarter hours.

History

Field II: 233, 234, 235, twelve quarter hours from 244, 245, 246, 247, 248; twelve quarter hours from courses numbered 300 or above. Total, 36 quarter hours.

Home Economics

Field II: 101, 210, 211, 231, 245, 303; 346 or 347; twelve quarter hours from 131, 230, 346, 347, 320, or 420. Total, 36 quarter hours.

Industrial Arts

Field II: 134, 140, 150, 225, 231, 259, 341 (prerequisite waived), 452; four quarter hours from 135, 232, 260, 300, 352. Total, 36 quarter hours.

Library Science

Field II: 320; 330 or 332; 430; 450; 460; 490; Education 487, 488. Total, 32 quarter hours.

Mathematics

Field I: 122, 123, 130,¹ 131,² 134, 227, 235, 236, 470; fourteen quarter hours from courses numbered 200 or higher (Education 314 may be used as an elective). Total, 48 quarter hours.

Field II: 122, 123, 130,¹ 131,² 134, 227, 235; four quarter hours from courses numbered 200 or higher. Total, 30 quarter hours.

Physical Education for Men

Field II: 120, 340, 452; four quarter hours from 203, 204, 205, 206, 207, 208; four quarter hours from 210, 211, 212, 213, 214, 215, 217, 240; eight quarter hours from 121, 244, 351, 461, Women's Physical Education 131, 132, 356; Health Education 227. Total, 32 quarter hours.

Physical Education for Women

Field II: 130; 131; 132 or 356; 233 or 234; 346; 353; 363; 413; four quarter hours from 235, 336, 362, 450, 228, 244, 351, Health Education 320, 227. Total, 36 quarter hours.

Physical Science

Students selecting physical science as a field of specialization must also select mathematics as a field of specialization.

Field I: Physics 130; 131; 132; Chemistry 120, 121, 122 or 150, 151, 152; twenty-four quarter hours from physics and/or chemistry courses. Total, 48 quarter hours.

Field II: Physics 130, 131, 132; Chemistry 120, 121, 122 or 150, 151, 152; twelve quarter hours from physics and/or chemistry courses. Total, 36 quarter hours.

Note: Physical Science 100 may be substituted for Physics 130. Physical Science 101 may be substituted for Chemistry 120 but not for Chemistry 150.

Social Studies

Field I: History 233, 234, 235; twelve quarter hours from History 244, 245, 246, 247, 248; Geography 150, 300, 302; four quarter hours political science; four quarter hours economics; four quarter hours anthropology or sociology. Total, 48 quarter hours.

¹ Students admitted to Mathematics 131 on basis of placement test should substitute 225 for 130.

² Students admitted to Mathematics 134 on basis of placement test may substitute for 131 any four-quarter-hour mathematics course numbered above 200 and should substitute 225 for 130.

Field II: History 233, 234, 235; twelve quarter hours from History 244, 245, 246, 247, 248; Geography 150, 300, 302. Total, 36 quarter hours.

Speech

Field II: English 120, 121; Speech 131, 232; Theatre Arts 132, 133, 445; Speech Correction 260; four quarter hours from Speech 330, 332, 352; Theatre Arts 244, 257, 333, 357. Total, 36 quarter hours.

CURRICULUM FOR ELEMENTARY EDUCATION—SPEECH CORRECTION

This curriculum requires 200 quarter hours less possible exemptions from the general requirements; therefore, students may expect to take more than twelve quarters to complete the program. Successful completion results in certification as an elementary teacher and as a speech correctionist.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and adviser will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Art 244 or Industrial Arts 224 or 225	4
Biology 116, 117	8
Education 120, 121	2
Education 232, 324, 327, 328, 329, 445	20
Education 441, 442, 443	12
English 120, 121, 220	12
English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher	
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 244 or 245 or 246 or 247 or 248	4
Mathematics 122, 123	6
Mathematics 320 or 321	4
Music 120, 328	8
Physical Education, Women, 360	2
Physical Science 100, 101	8
Psychology 231, 450, 451	12
Speech 131	4
Speech Correction 254, 260, 451, 452, 453, 455, 456, 457, 458	36
Theatre Arts 132, 133	8
Zoology 225	4

Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions, and elective courses, if

necessary, to complete a minimum of 192 quarter hours.

Physical Education service courses (nominal credit)_(6)

The addition of Psychology 360, 361, and Education 444 is recommended.

CURRICULUM FOR HIGH SCHOOL AND SPECIAL AREA TEACHERS—MAJORS AND MINORS

The majors and minors, both departmental and interdepartmental, which may be submitted in fulfillment of the specialization for high school and special area teachers are outlined in this section. General and professional requirements outside the major and minor fields are described elsewhere in the catalog.

A course in methods is included in the outline for each major unless work in methods of teaching is given in other required major courses. Work in methods is included in several of the minors, also. If not included in the minor, the course in methods must be added unless the major and minor have been ruled similar. The adviser should be consulted on this point; rulings concerning similar and dissimilar majors and minors are made by the Vice President for Instruction.

Certification to teach in a general field (e.g., Business) in Illinois high schools does not necessarily permit the teaching of a specific subject in that field; for details, the student should consult Bulletin Series A, No. 160, Office of Public Instruction.

The prescriptions for majors and minors have been filed with, and approved by, the State Teacher Certification Board. They are used as a basis for cards of entitlement.

Art

Major: (Standard Special Certificate. No minor required.)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341.....	52 qtr. hrs.
Elective courses in art (See Note).....	36
Total	88 qtr. hrs.

Note: The elective courses must comprise 24 or 28 quarter hours in a major concentration, complemented by 12 or 8 quarter hours in a minor concentration. These are defined as follows:

Major Area I: Painting, drawing, print making

Major Area II: Ceramics, jewelry, sculpture, weaving

Minor Areas: Art education, art history, commercial design, the alternate major area

Study in two phases of the major area and one phase of the minor area is required.

Major: (Standard High School Certificate)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340.....	48 qtr. hrs.
Elective courses in art.....	12
Total	60 qtr. hrs.

Minor:

Art 100 or 101; 205; 110 or 111 or 140; 225 or 270 or 334; 244 or 340; one course chosen from Art 160, 260, 261, 262, 360, 361, 362; eight quarter hours elective credit in art.....	32 qtr. hrs.
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Biological Sciences

Minor: Plan A

Biology 126, 127, 128; or Biology 116, 117, and an elective course in botany or zoology.....	12 qtr. hrs.
Botany 218, 234.....	8
Zoology 343, 350.....	8
Electives: Four quarter hours in botany and four quarter hours in zoology (See Note).....	8
Total	36 qtr. hrs.

Note: See course descriptions of Biology 126, 127, 128 for restrictions in selection of elective courses.

Minor: Plan B

Botany 120, 121, 222; 234 or 335.....	16 qtr. hrs.
Zoology 110, 111; or 120, 121.....	8
Zoology 343; 348 or 350.....	8
Elective in botany or zoology.....	4
Total	36 qtr. hrs.

Note: For other minors in biological sciences, see botany minor and zoology minor.

Botany

Major: (Standard High School Certificate)

Botany 120, 121, 222, 230, 231, 340.....	24 qtr. hrs.
Elective courses in botany.....	28
Zoology 110, 111, 212.....	12
Elective courses in zoology.....	16
Chemistry 120, 121, 122; or Chemistry 150, 151, 152	12
Geography 140 or 141.....	4

Total, including correlative courses and a minor in
zoology 96 qtr. hrs.

Minor:

Botany 120, 121, 222, 335.....	16 qtr. hrs.
Elective courses in botany.....	8
Zoology 110, 111, 212; or Zoology 120, 121, 122.....	12
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Total	36 qtr. hrs.

Business Education

Major: (Standard High School Certificate)

The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Management 141, 142; Business Education 212	12 qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8
Three courses from Business Education 123, 124, 125, 223, 224, 225.....	12
Accounting 230, 231, 232; Management 346, 347	20
Two courses to be chosen from Business Education 340, 342, 344.....	8
Elective course in business.....	4
Economics 254, 255, 256.....	12
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Total, including correlative courses.....	76 qtr. hrs.

Accounting Option:

Management 141, 142; Business Education 212	12 qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8
Accounting 230, 231, 232.....	12
Elective courses in accounting.....	12
Management 346, 347.....	8
Business Education 340; 342 or 344.....	8
Elective course in business.....	4
Economics 254, 255, 256.....	12
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Total, including correlative courses.....	76 qtr. hrs.

Secretarial Option:

Management 140, 141, 142.....	12 qtr. hrs.
Business Education 210, 211, 212, 223, 224, 225	24
Management 346, 347; Business Education 342, 344	16
Elective courses in business.....	12
Economics 254, 255, 256.....	12
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Total, including correlative courses.....	76 qtr. hrs.

Minor: (Four options)

Secretarial Option:

Three courses from Business Education 110, 111, 112, 210, 211.....	12 qtr. hrs.
Three courses from Business Education 123, 124, 125, 223, 224, 225.....	12
Business Education 212.....	4
Business Education 342 or 344.....	4
Total	32 qtr. hrs.

Typewriting and Bookkeeping Option:

Three courses from Business Education 110, 111, 112, 210, 211.....	12 qtr. hrs.
Accounting 230, 231, 232; Business Education 212	16
Business Education 340 or 344.....	4
Total	32 qtr. hrs.

Bookkeeping, General Business, and Business Law Option:

Management 141, 142; Accounting 230, 231, 232	20 qtr. hrs.
Management 346, 347.....	8
Business Education 340.....	4
Total	32 qtr. hrs.

*General Business, Salesmanship, Retailing and
Business Law Option:*

Management 140; Marketing 247, 248, 249, 250	20 qtr. hrs.
Management 346, 347; Business Education 340	12
Total	32 qtr. hrs.

Chemistry

Major: (Standard High School Certificate)

Chemistry 150, 151, 152; or 120, 121, 122.....	12 qtr. hrs.
Chemistry 330, 343, 344, 345, 361, 491, 492, 493; 470 or 494.....	36
Physical Science 340.....	4
Chemistry 342	1
Mathematics 134, 235, 236, 345.....	16
Total, including correlative courses.....	69 qtr. hrs.
One year of physics strongly recommended.	

Minor:

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
Chemistry 234, 343, 344	12
Elective courses in chemistry and/or physics	12
Total	36 qtr. hrs.

English

Major: (Standard High School Certificate)

English 126, 226, 245, 246, 247, 250, 251; 326 or 327; 340	36 qtr. hrs.
Elective courses in English numbered above 220, except English 322 and 459	20 qtr. hrs.
History 343, 344	8 qtr. hrs.
Foreign language (a single language)	24 qtr. hrs.
Total, including correlative courses	88 qtr. hrs.

Minor:

English 245, 246, 247; 326 or 327 two other Eng- lish courses numbered above 220, except English 322, 340, and 459; Speech 131	28 qtr. hrs.
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Foreign Language

FRENCH

Major: (Standard High School Certificate)

French 330, 331, 332, 340	16 qtr. hrs.
Nine courses selected from French 130, 131, 132, 230, 231, 232, 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512	36
History 235, 247	8
Total, including correlative courses	60 qtr. hrs.

Note: Students with a background of high school units in French do not receive credit for beginning courses in university French. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

GERMAN

Major: (Standard High School Certificate)

German 340, 361; 354 or 410	12 qtr. hrs.
Ten courses selected from German 130, 131, 132, 233, 234, 235, 353, 355, 362, 363, 411, 412, 453, 454, 455, 510, 511, 512	40
History 235, 248	8
Total, including correlative courses	60 qtr. hrs.

Note: Students with a background of high school units in German do not receive credit for beginning courses in university German. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

LATIN

Major: (Standard High School Certificate)

Latin 340.....	4 qtr. hrs.
Twelve courses selected from Latin 120, 121, 122, 220, 221, 222, 320, 321, 322, 330, 331, 332, 433, 434, 435, 450, 451, 452, 510, 511, 512	48
History 233 or 234, or 235; 244.....	8
Total, including correlative courses.....	60 qtr. hrs.

Note: Students with a background of high school units in Latin do not receive credit for beginning courses in university Latin. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

SPANISH

Major: (Standard High School Certificate)

Spanish 340; 330 or 412; 331 or 410.....	12 qtr. hrs.
Ten courses selected from Spanish 130, 131, 132, 230, 231, 232, 321, 322, 323, 332, 411, 456, 457, 458, 510, 511, 512.....	40
History 233, 234.....	8
Total, including correlative courses.....	60 qtr. hrs.

Note: Students with a background of high school units in Spanish do not receive credit for beginning courses in university Spanish. See page 184.

At least twelve quarter hours in courses numbered 400 and above must be included.

Minor:

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor must include twenty-four quarter hours as follows:

French: 24 quarter hours beyond French 131.

German: 24 quarter hours beyond German 131.

Latin: 24 quarter hours beyond Latin 121.

Russian: 24 quarter hours beyond Russian 141.

Spanish: 24 quarter hours beyond Spanish 131.

Geography

Major: (Standard High School Certificate)

Geography 150, 151 (or 302); 141 or 142; 340; thirty-six quarter hours in geography courses approved by the head of the Department of Geography	52 qtr. hrs.
Economics 254, 255	8
Total	60 qtr. hrs.

Minor:

Geography 140, 141, 142, 151 and eight quarter hours in geography courses approved by the de- partment; or Geography 300, 301, 302, and twelve quarter hours approved by the depart- ment	24 qtr. hrs.
Three courses in history, economics, sociology, or political science	12
Total	36 qtr. hrs.

Health Education

Minor:

Health Education 120, 227, 320	12 qtr. hrs.
Zoology 348	4
Psychology 455	4
One or two courses from Biology 126, 127, 128, or Zoology 120, 121, 225; and course(s) chosen from Home Economics 303, Botany 233, 335, PEW 131, 300, Health Education 330	12
Total	32 qtr. hrs.

History

Major: (Standard High School Certificate)

History 233, 234, 235, 244, 245, 246, 247, 248	32 qtr. hrs.
Advanced elective courses in history	20
Social Science 340	4
Economics 254, 255, 256	12
Three courses in sociology-anthropology	12
Three courses in political science	12
Geography 150	4
Total, including correlative courses	96 qtr. hrs.

Note: The student is certified for the Standard High School Certificate with major in history and minor in social sciences.

Minor:

History 233, 234, 235.....	12 qtr. hrs.
Three courses from History 244, 245, 246, 247, 248	12
Elective courses in history numbered 300 or higher	12
Total	36 qtr. hrs.

Home Economics

Major: (Standard Special Certificate. No minor required)

Home Economics 101, 102, 131, 201, 210, 211, 212, 230, 231, 245, 300, 301, 302, 320, 340, 345, 346, 347, 431.....	72 qtr. hrs.
Chemistry 153, 154, 155; Botany 234.....	16 qtr. hrs.
Sociology 271, Economics 254; Anthropology 273 or Sociology 473.....	12
Total	100 qtr. hrs.

Minor:

Home Economics 101, 210, 211, 231, 245, 303; 346 or 347.....	24 qtr. hrs.
Three courses from 131, 230, 320, 420, 346, 347.....	12
Total	36 qtr. hrs.

Industrial Arts

Major: (Standard Special Certificate. No minor required)

Industrial Arts 134, 135, 140, 150, 231, 232, 245, 265, 259, 260, 326, 336, 340, 352, 354, 380, 382	64 qtr. hrs.
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Minor:

Industrial Arts 134, 140, 150, 231, 259, 340, 452	28 qtr. hrs.
One of the following sequences: Industrial Arts 135, 336; 232, 233; 260, 360; 352, 354.....	8
Total	36 qtr. hrs.

Journalism

Minor:

Journalism 210, 211, 212, 310, 311, 312.....	24 qtr. hrs.
English 220 or an advanced course in English composition	4
Total	28 qtr. hrs.

Latin American Studies

Major: (An interdisciplinary major. Standard High School Certificate)

Spanish	36 qtr. hrs.
History 281, 282, 464, 465.....	16
Geography 351, 451.....	8
Anthropology 360.....	4
Political Science 481, 493.....	8

Additional courses to satisfy requirements for the Standard High School Certificate either through completing the requirements for a major and a minor or the requirements for three minors. The total number of quarter hours depends upon the choice of these additional courses.

Library Science

Minor:

Library 320, 430, 450, 460, 490; 330 or 332.....	24 qtr. hrs.
For certification for instructional materials, add	
Education 487, 488.....	8

Total 24 or 32 qtr. hrs.

Manual Arts Therapy

Major: (Standard Special Certificate)

Industrial Arts 134, 135, 136, 150, 231, 232, 259, 260, 245, 265, 340, 326, 336, 352, 354, 452	60 qtr. hrs.
Advanced courses in psychology.....	12
Sociology courses.....	12
Total	84 qtr. hrs.

Mathematics

Major: (Standard High School Certificate)

Mathematics 134, 225; 227 or 228; 235; 236; 340; 343; 344; 345; 470; 471; 350 or 460 or 480 or 490.....	48 qtr. hrs.
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Minor:

Mathematics 134; 225 or 343; 227 or 228; 235; 236; 340; 345; 470. (Mathematics 340 may be omitted if both 225 and 227 are in- cluded.).....	28 or 32 qtr. hrs.
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Music

Major: (Special Certificate. The student chooses one of four options: Instrumental, Vocal, Keyboard, and General)

Instrumental Option:

Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146, 200, 201, 204, 205, 230, 231, 232, 240, 340, 347 or 455, 351, 352, 353, 381, 447	70 qtr. hrs.
Applied Music (Principal)	11
Ensemble	6 minimum*
Total	87 qtr. hrs.

Vocal Option:

Music 126, 127, 128, 130, 131, 132, 146, 200, 204, 230, 231, 232, 240, 243, 244, 245, 339, 342, 343, 347 or 455, 351, 352, 353, 380, 447	70 qtr. hrs.
Applied Music (Principal)	11
Applied Music (Piano), Music 233, 234, 235	3
Ensemble	6 minimum*
Total	90 qtr. hrs.

Keyboard Option:

Music 130, 131, 132, 136, 137, 138, 146, 200, 204, 230, 231, 232, 240, 246, 247, 248, 339, 347 or 455, 351, 352, 353, 380, 447	66 qtr. hrs.
Applied Music (Principal)	11
Applied Music (Voice), Music 233, 234, 235	3
Ensemble	6 minimum*
Total	86 qtr. hrs.

General Music Option:

Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146, 200, 201, 204, 205, 230, 231, 232, 240, 243, 244, 245, 339, 340, 347 or 455, 351, 352, 353, 380, 381, 447	81 qtr. hrs.
Applied Music (Principal)	11
Ensemble (Participation in choral and instru- mental ensembles is required.)	6 minimum*
Total	98 qtr. hrs.

*Participation in an ensemble organization is encouraged during each year of residence.

Minor:

Vocal Option

Music 130, 131, 132, 230, 231, 339, 353, 380,
four quarter hours in applied piano, six quarter
hours in applied voice.....42 qtr. hrs.

Participation for at least six quarters in a univer-
sity choral organization is required.

Instrumental Option:

Music 130, 131, 132, 230, 231, 200, 201, 204,
205, 340, 353, 381, four quarter hours in ap-
plied instrumental music.....44 qtr. hrs.

Participation for at least six quarters in a univer-
sity instrumental organization is required.

Physical Education, Men

Major: (Standard High School Certificate)

Physical Education 120, 121, 150, 244, 340, 451,
45228 qtr. hrs.

One course from PEM 203, 204, 205, 206, 207,
208 2

One course from PEM 210, 211, 212, 213, 214,
215, 217, 240..... 2

Three courses from PEM 347*, 348*, 349*,
350*, 357, 358, 359, 360, with at least two
from those marked with *.....12

Health Education 227..... 4

Zoology 120, 121, 225, 348.....16

Total, including correlative courses.....64 qtr. hrs.

Note: The student must demonstrate proficiency in six activities
other than those selected at the 200 level. Teaching practicum must
include an assignment in the minor.

Minor:

Physical Education 120, 340, 452.....12 qtr. hrs.

Health Education 227..... 4

One course from PEM 203, 204, 205, 206, 207,
208 2

One course from PEM 210, 211, 212, 213, 214,
215, 217, 240..... 2

Three courses from PEM 121, 244, 347, 348,
349, 350, 451.....12

Total32 qtr. hrs.

Note: The student must demonstrate proficiency in four physical
education activities.

Physical Education, Women

Major: (Special Certificate)

Physical Education 130, 131, 132, 233, 234, 235, 244, 252, 336, 346, 353, 450, 410, 411.....	56 qtr. hrs.
Zoology 120, 121, 225, 348.....	16
Health Education 320.....	4
Total	76 qtr. hrs.

Note: The student must take twenty-two quarter hours (nominal credit) in activity courses, at the rate of two courses each quarter for eleven quarters.

Minor:

Physical Education (Women) 233 or 234; 346; 353; 413.....	16 qtr. hrs.
Health Education 120 or 227 or 320.....	4
Three courses from Physical Education 130, 131, 132, 233, 234, 244, 252, 336, 351, 355, 356, Health Education 227, 320.....	12
Total	32 qtr. hrs.

Note: The student must take eleven quarter hours (nominal credit) in activity courses.

Physics

Major: (Standard High School Certificate)

Physics 130, 131, 132, 236, 239, 240, 341, 342, 465	36 qtr. hrs.
Physics 461 or 462; 466 or 467; 468 or 469.....	12
Physical Science 340.....	4
Mathematics 134, 235, 236, 345.....	16
Two courses from Mathematics 350, 351, 460, 461	8
Chemistry (strongly recommended).....	12
Total, including correlative courses.....	76 to 88 qtr. hrs.

Minor:

Physics 130, 131, 132.....	12 qtr. hrs.
Electives in physics as approved by the depart- ment	12
Electives in physics and/or chemistry.....	12
Total	36 qtr. hrs.

Psychology

Minor:

Psychology 231, 351; 352 or 447.....	12 qtr. hrs.
Elective courses in psychology.....	20
Total	32 qtr. hrs.

Safety and Driver Education

Minor: (May be used only as a second minor)

Health Education 330, 331, 332	12 qtr. hrs.
Three courses from Health Education 227, 320, PEM 461, PEW 131, 300, Psychology 447, 455, Political Science 112, 364	12
Total	24 qtr. hrs.

Social Science

Major: (Standard High School Certificate)

The major consists of courses in economics, political science, anthropology, sociology, and geography; history courses to complete a minor are also required.

Core courses:

Economics 254, 255, 256; Anthropology 273; Sociology 271, 272; Political Science 110, 111; one course from Political Science 100, 112, 220, 221, 222	36 qtr. hrs.
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Additional courses:

Geography	4
Economics	8
Political Science	8
Sociology	8
Economics, sociology, or political science	4
Social Science 340	4
History 233, 234, 235, 246, 247, 248	24
Courses in history numbered above 300	12
Total	108 qtr. hrs.

Minor:

Two of the following options:

- a. Economics 254, 255, 256
- b. Political Science 110, 111, 112 or 220 or 221 or 222
- c. Anthropology 273, Sociology 271, 272

Elective courses from anthropology, sociology, economics, geography, history, political science

	12
Total	36 qtr. hrs.

Speech

Major: (Standard High School Certificate)

Speech 230, 232, 234, 252, 340	20 qtr. hrs.
Theater Arts 132, 133, 257, 445	16

One of the following options:

a. Three courses from Speech 320, 453, 470, 480	
b. Three courses from Speech 470; 352 or 452; 320 or 480	
c. Three courses from Speech 352; 452; 453 or 470	12
Elective: Any speech course other than 131	4
Total	52 qtr. hrs.

All speech majors are required to participate in extra-curricular forensic activities for a minimum of five quarters.

Minor:

General Speech Option:

Speech 131, 232, 340, and one speech elective	16 qtr. hrs.
Theater Arts 132, 133, 445	12
English 120 and 121 are included for certification	8
Total	36 qtr. hrs.

Public Address Option:

Speech 131, 230, 232, 234, 340	20 qtr. hrs.
Theater Arts 132, 133	8
English 120, 121 are included for certification	8
Total	36 qtr. hrs.

Speech Correction

Major: (Special Certificate in Speech Correction)

Speech Correction 254, 260, 262, 263, 452, 453, 455, 456, 457, 458	40 qtr. hrs.
Theater Arts 132, 133	8
Psychology 450, 451	8
Three courses from Psychology 360, 452, 455, Education 469, 328, 490, 444	12
Zoology 225	4
Total, including correlative courses	72 qtr. hrs.

Note: Because of requirements of the American Speech and Hearing Association, the student is advised to earn the master's degree as soon as possible.

Theatre Arts

Major: (Standard High School Certificate)

Theatre Arts 132, 133, 240, 244, 257, 333, 357, 358, 445, 473.....	40 qtr. hrs.
Speech 232, 234, 340.....	12
Total	52 qtr. hrs.

Minor:

Theatre Arts 132, 133, 244, 257, 445.....	20 qtr. hrs.
Speech 131, 340.....	8
English 120, 121 are included for certification....	8
Total	36 qtr. hrs.

Zoology

Major: (Standard High School Certificate)

Zoology 110, 111, 212, 214, 215, 336, 340, 343, 350, 445	40 qtr. hrs.
Electives in advanced zoology courses.....	12
Botany 120, 121, 222, 230, 231; 233 or 335; one course in botany numbered 300 or above.....	28
Chemistry 120, 121, 122; or 150, 151, 152.....	12
Geography 140	4
Total, including correlative courses and minor in botany	96 qtr. hrs.

Minor:

Zoology 110, 111, 212; or 120, 121, 122.....	12 qtr. hrs.
Zoology 214 or 225; 343; 348 or 350.....	12
Botany 120, 121, 222.....	12
Total	36 qtr. hrs.

BACHELOR OF SCIENCE IN BUSINESS

The degree, Bachelor of Science in Business, is conferred upon successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, together with elective courses.

General Requirements

The general requirements (and exemptions) are the same as those prescribed for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement.

Specialization

Management 141, 142; Marketing 247; Accounting 230, 231, 232; Management 346, 347, 351, 481, 482	44 qtr. hrs.
Courses in the major	24
Total	68 qtr. hrs.

Majors:

Accounting: Accounting 354, 355, 356, 360, 461, 467
 Management: Management 330, 383, 452, 453; Accounting 363; plus one elective in management
 Marketing: Marketing 248, 249, 250, 370, 486, 487
 Secretarial: Business Education 212, 223, 224, 225; Management 383, 453

Electives

The general requirements and specialization must be supplemented by elective courses to bring the total to 192 quarter hours plus nominal credit. Courses in professional education and methods are not acceptable as elective courses. The electives must be chosen so that at least 96 quarter hours of the 192 submitted for graduation are in courses outside the School of Business.

BACHELOR OF SCIENCE IN HOME ECONOMICS

The degree, Bachelor of Science in Home Economics, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented by elective credit to meet the minimum graduation requirement of 192 quarter hours plus nominal credit. Courses in professional education and methods are not acceptable for elective credit.

General Requirements

The general requirements (and exemptions) are the same as those for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement. Suitable courses in the specialization may be used in partial fulfillment of the general requirements.

Specialization

Specialization for the degree, Bachelor of Science in Home Economics, offers a choice of two basic curricula—Dietetics and Home Economics in Business. The curriculum, Home Economics in Business, has two options—Foods and Nutrition or Clothing and Merchandising.

The courses required in these curricula are as follows:

Dietetics

Anthropology 273	4 qtr. hrs.
Botany 234	4

Business 230, 247, 451, 452	16
Chemistry 120, 121, 155, 356	16
Economics 254	4
Education 332	4
Home Economics 102, 210, 211, 212, 302, 310, 312, 340, 360, 401	40
Psychology 231, 351	8
Sociology 271, 473	8
Zoology 120, 348, 349	12

Home Economics in Business

Anthropology 273	4 qtr. hrs.
Business 141, 247, 486	12
Chemistry 153, 154, 155	12
Economics 254	4
Home Economics 102, 300, 320, 370, 380, 390	24
Psychology 231	4
Sociology 271, 473	8
Option I or Option II	38-48

Option I—Foods and Nutrition

Botany 234	4 qtr. hrs.
Business 142, 250	8
Journalism 312	4
Psychology 351 or 447	4
Home Economics 210, 211, 212, 233, 235, 302	24
Home Economics 310 or 345	4
Total	48 qtr. hrs.

Option II—Clothing and Merchandising

Business 248, 249	8 qtr. hrs.
Home Economics 101 and/or 201	4-8
Home Economics 131, 231, 232, 233, 301, 401, 420	26
Total	38-42 qtr. hrs.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The degree, Bachelor of Science in Industrial Technology, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented if necessary by elective courses to meet the minimum graduation requirement of 192 quarter hours/plus nominal credit. Courses in professional education and methods are not acceptable for elective credit.

General Requirements

The general requirements (and exemptions) are the same as those prescribed for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement. Suitable courses in the specialization are applied toward the general requirements.

Specialization

The specialization provides for three options: Metal Work, Light Building Construction, and Electronics.

The courses required in the specialization are as follows:

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
Physics 130, 131, 132	12
Mathematics 130, 131, 134, and Industrial Calculus*	16
Economics 254, 255, 357	12
Art 100 or 110 or 111 or 390 or 391	12
Sociology 381	4
Geography 360	4
Business 383; 451 or 452	8
Psychology 231, Industrial Psychology*	8
Industrial Arts 135, 140, 150, 231, 300, 352	24
Descriptive Geometry*	4
Applied Mechanics,* Materials Testing,* Quality Control,* Industrial Safety,* Production Control*	18
Internship in Industry*	8
Option I, II or III	18-24
Total	144-160 qtr. hrs.

Option I—Metal Work

Industrial Arts 326, 354, 420	12 qtr. hrs.
Metallurgy,* Casting*	4
Elective	2

Option II—Light Building Construction

Industrial Arts 265, 336, 380, 382	14 qtr. hrs.
Wood Fabrication,* Surveying,* Cost Estimating,* Specifications,* Office Practice*	10

Option III—Electronics

Physics 250	4 qtr. hrs.
Elective in Electronics	6
Industrial Electronics,* Electrical Instrumentation*	8

* Courses in preparation.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

The degrees, Bachelor of Arts and Bachelor of Science, are conferred upon completion of programs consisting of general requirements and specialization, supplemented by elective credit to meet the minimum graduation requirement of 192 quarter hours plus nominal credit. Courses in professional education are not accepted for credit toward these degrees.

General Requirements

	B.S.	B.A.
English 120, 121	8	8 qtr. hrs.
Speech 131, or approved substitute	4	4
Natural Science	24	12

The sciences are classified in two fields: biological sciences (botany, zoology, and general biology) and physical sciences (physics, chemistry, and physical sciences.) Twelve quarter hours in each of these fields are required for the degree, Bachelor of Science, and twelve quarter hours in one field, for the degree, Bachelor of Arts.

A student who presents two acceptable units¹ in physical sciences may be exempt from the physical science requirement and have the total science requirement for the degree, Bachelor of Science reduced to twelve quarter hours in biological science. A student who presents two acceptable units in biological science may have the total science requirement reduced to twelve quarter hours in physical science.

Regardless of exemptions the student must take at least twelve quarter hours in one of the fields in the science area.

History16 16 qtr. hrs.

History courses may be classified as American history, European history, Latin American history, world history, etc., and at least two of these fields of history must be included in meeting the normal requirement.

A student who presents one or more acceptable units in history may have the history requirement reduced four quarter hours for each acceptable unit to a maximum of eight quarter hours, with this work taken in a subject different from that in which the exemption is granted.

Social Studies (except history)16 16 qtr. hrs.

The social studies area is defined to include economics, political science, sociology, psychology, and geography. The

¹ An acceptable unit is defined as two semesters of high school work, taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.

Exemptions do not establish college credit. They free the student for greater flexibility in planning his college courses by permitting more elective credit. Students who are not eligible for exemptions under the rules above may apply for examination in high school subjects in which they feel confident that they have adequate background.

normal requirement of sixteen quarter hours must include work in at least two subjects. A student who presents one or more acceptable units in any of the social studies areas may have the requirement reduced by four quarter hours.

Humanities16 24 qtr. hrs.

This area comprises art, music, literature, and philosophy. The normal requirement of sixteen quarter hours for the degree, Bachelor of Science, requires work in at least two of these subjects. The normal requirement of twenty-four quarter hours for the degree, Bachelor of Arts, requires work in at least three of these subjects. An approved course in literature in a foreign language may not count simultaneously toward the requirement in foreign language and the humanities.

A student who presents one or more acceptable units in any of the subjects in the humanities area may have the requirement reduced by four quarter hours.

Mathematics 8 8 qtr. hrs.

Courses in college mathematics other than courses in methods of teaching mathematics may be used to satisfy this requirement.

A student who presents one or more acceptable units in college preparatory mathematics may have the requirement reduced by four quarter hours for each such acceptable unit. Algebra, plane geometry, solid geometry, and trigonometry are considered college preparatory mathematics courses; courses of newer types now offered in certain high schools may be ruled by the Department of Mathematics to be college preparatory courses.

Foreign Language24 36 qtr. hrs.

This requirement must consist of courses in a single language.

A student who presents four acceptable units in a single foreign language is exempt from this requirement in the Bachelor of Science program.

A student with less than four acceptable units in a single foreign language will be considered to have completed the requirement in the Bachelor of Science program when he has passed the third quarter course of the second year in a foreign language (Latin 222, French 232, German 235, Russian 252, Spanish 232) or any higher numbered course in that language.

Regardless of the number of acceptable units, a student will be considered to have completed this requirement in the Bachelor of Arts program when he has passed twelve quar-

ter hours of work in a foreign language at the 300 or higher level.

For placement provisions in foreign language classes, see Section X.

Health Education 120.....	4	4
Physical Education (nominal credit).....	(6)	(6)

Specialization

The specialization for the degrees, Bachelor of Arts and Bachelor of Science, may consist of a departmental major (forty-eight quarter hours as outlined in the following section) and minor (twenty-four quarter hours as outlined in the following section), an interdisciplinary major of prescribed courses in related disciplines, or certain cooperative programs. Suitable courses in the specialization may also be used in partial fulfillment of the general requirements.

Majors and Minors

These majors and minors are not acceptable in teacher education programs.

Art

Major:

Art 100, 101, 110, 111, 205, 260.....	24 qtr. hrs.
Art 261, 262; or 225, 270.....	8
Sixteen quarter hours from one of the following groups: (1) art history; (2) commercial design; (3) drawing, painting, print making; (4) ceramics, jewelry, sculpture, weaving.....	16
Total	48 qtr. hrs.

Minor:

Twenty-four quarter hours in art courses as approved by the head of the department.....	24 qtr. hrs.
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Botany

Major:

Botany 120, 121, 222, 230, 231.....	20 qtr. hrs.
Electives in botany.....	28
Total	48 qtr. hrs.
Correlative courses: one year in chemistry	

Minor:

Botany 120, 121, 222, and twelve quarter hours approved by the head of the department.....	24 qtr. hrs.
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Business**Major:**

Management 141, 142; Accounting 230; Marketing 247; Management 346, 351.....	24 qtr. hrs.
Electives as approved by the Director of the School of Business.....	24
Total	48 qtr. hrs.

Minor:

Twenty-four quarter hours in one of the following: (1) shorthand and typewriting; (2) accounting and related courses; (3) law, marketing and management; as approved by the Director	24 qtr. hrs.
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Chemistry**Major:**

Chemistry 150, 151, 152; or 120, 121, 122.....	12 qtr. hrs.
Chemistry 343, 344, 345, 330 (or 234), 361, 470, 491, 492, 493.....	36
Total	48 qtr. hrs.

Courses in mathematics through calculus are prerequisite to certain courses in chemistry.

Minor:

Chemistry 150, 151, 152; or 120, 121, 122.....	12 qtr. hrs.
Chemistry 343, 344; 234 or 345 or 356.....	12
Total	24 qtr. hrs.

Economics**Major:**

Forty-eight quarter hours including Economics 460, 461, 462.....	48 qtr. hrs.
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Minor:

Economics 254, 255, 256, and twelve quarter hours as approved by the head of the department	24 qtr. hrs.
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English**Major:**

English 245, 246, 247; 326 or 327.....	16 qtr. hrs.
Elective courses in English numbered above 220, not to include English 322, 340, and 459.....	32 qtr. hrs.
Total	48 qtr. hrs.

Minor:

English 245, 246, 247; 326 or 327; two other courses in English numbered above 220, not to include English 322, 340, and 459.....	24 qtr. hrs.
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Foreign Language

Major:

Forty-eight quarter hours in a language, including twelve quarter hours in courses numbered 400 or above.....48 qtr. hrs.

Minor:

Twenty-four quarter hours in a language.....24 qtr. hrs.

Geography

Major:

Forty-eight quarter hours in courses in geography approved by the head of the department.....48 qtr. hrs.

Minor:

Geography 141, 142, 150, and twelve quarter hours in geography courses approved by the head of the department.....24 qtr. hrs.

History

Major:

History 233, 234, 235, 244, 245, 246, 247, 248.....32 qtr. hrs.
Elective courses in history numbered above 300.....16

Total48 qtr. hrs.

Minor:

Twenty-four quarter hours in history.....24 qtr. hrs.

Home Economics

Major:

Home Economics 131, 300, 303, 320, 346, 347.....24 qtr. hrs.
Electives in home economics.....24

Total48 qtr. hrs.

Minor:

Twenty-four quarter hours in home economics approved by the head of the department.....24 qtr. hrs.

Industrial Arts

Major:

Completion of requirements for the minor as listed below24 qtr. hrs.

Elective courses in industrial arts approved by the head of the department.....24

Total48 qtr. hrs.

Minor:

Three of the following sequences: (1) Industrial Arts 134, 135; (2) 231, 232; (3) 259, 260; (4) 140, 352; (5) 150, 300; (6) 380, 382; (7) 245, 265, 452.....24 qtr. hrs.

Journalism**Minor:**

Journalism 210, 211, 212, 310, 311, 312.....24 qtr. hrs.

Latin American Studies**Major: (Interdepartmental major; no minor required)**

Spanish36 qtr. hrs.

History 281, 282, 464, 465.....16

Geography 351, 451.....8

Anthropology 360.....4

Political Science 481, 493.....8

Total72 qtr. hrs.

Library Science**Minor:**

Library 320, 430, 450, 460, 490; 330 or 332.....24 qtr. hrs.

Total24 qtr. hrs.

Mathematics**Major:**

Mathematics 134, 235, 236, 343, 344, 345.....24 qtr. hrs.

Electives chosen from Mathematics 225, 228,
231, 350, 351, 460, 461, 470, 471, 480, 490.....24

Total48 qtr. hrs.

Minor:

Mathematics 134, 235, 236, 345, and eight quarter hours chosen from courses acceptable for the major24 qtr. hrs.

Music**Major:**

Music 130, 131, 132, 230, 231, 232, 347, 351,
352, 353, 447.....44 qtr. hrs.

Applied Music12

Electives chosen from Music 243, 244, 245, 342,
343, 362, 455, 460, 463. Seniors who satisfy
all prerequisites may substitute courses chosen
from Music 510, 511, 517, 530, 531, 532, 534,
536, 5474

Minimum ensemble requirements.....6

(A maximum of nine quarter hours may be submitted toward graduation. The music major is encouraged to participate in at least one ensemble during each quarter in residence.)

Total66 qtr. hrs.

Minor:

Music 130, 131, 132, 230, 231, 353, and six quarter hours as approved by the Director of the School of Music.....30 qtr. hrs.

Philosophy

Minor:

Philosophy 250, 301, and sixteen quarter hours
of courses in philosophy approved by the de-
partment 24 qtr. hrs.

Physical Education

Major:

Twelve courses selected from PEM 120, 121,
150, 228, 244, 351, 451, 452, 461, 521, 522,
528; PEW 131, 132, 235, 336 48 qtr. hrs.

Physics

Major:

Physics 130, 131, 132, 236, 239, 240, 341, 342,
465 36 qtr. hrs.
Electives in physics approved by the head of the
department selected from 461, 462, 466, 467,
468, 469 12

Total 48 qtr. hrs.

Mathematics courses including differential equa-
tions or advanced calculus are prerequisite to ad-
vanced work in physics. At least one year of
chemistry is desirable.

Minor:

Physics 130, 131, 132, and twelve quarter hours
of courses approved by the head of the depart-
ment 24 qtr. hrs.

Political Science

Major:

Eight quarter hours chosen from Political Science
100, 110, 111, 112 8 qtr. hrs.

Forty quarter hours chosen so that the entire ma-
jor includes four of the following areas: (1)
international affairs; (2) comparative foreign
governments; (3) politics and political be-
havior; (4) public law and administration;
(5) political theory 40

Total 48 qtr. hrs.

Minor:

Twenty-four quarter hours in political science
including at least eight quarter hours chosen
from Political Science 100, 110, 111, 112 24 qtr. hrs.

Psychology

Major:

Psychology 231, 234, 261, 281.....	16 qtr. hrs.
Psychology courses approved by the head of the department	32
	—
Total	48 qtr. hrs.

Minor:

Psychology 231, 351, and sixteen quarter hours of courses in psychology as approved by the head of the department.....	24 qtr. hrs.
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Sociology

Major:

Completion of the requirements for the minor as listed below	24 qtr. hrs.
Elective courses in sociology approved by the head of the department.....	24
	—
Total	48 qtr. hrs.

Minor:

Anthropology 273; Sociology 271, 272; twelve quarter hours of elective courses approved by the head of the department.....	24 qtr. hrs.
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Speech

Major:

Theater Arts 132, 133.....	8 qtr. hrs.
Elective courses in speech approved by the head of the department.....	40
	—
Total	48 qtr. hrs.

Minor:

Theater Arts 132, 133, and sixteen quarter hours in speech courses approved by the head of the department	24 qtr. hrs.
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Speech Correction

Major:

Speech Correction 254, 260, 262, 263, 452, 453, 455, 456, 457, 458.....	40 qtr. hrs.
Theater Arts 132, 133.....	8
	—
Total	48 qtr. hrs.

Theatre Arts**Major:**

Completion of the requirements for the minor as listed below.....	24 qtr. hrs.
Elective courses in theatre arts approved by the head of the department.....	24
Total	48 qtr. hrs.

Minor:

Theatre Arts 132, 133, and sixteen quarter hours in courses in theater arts as approved by the head of the department.....	24 qtr. hrs.
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Zoology**Major:**

Zoology 110, 111, 212, 214, 215, 336, 343, 350, 445	36 qtr. hrs.
Three courses chosen from Zoology 327, 341, 344, 345, 346, 347, 449, 451, 452, 453.....	12
Total	48 qtr. hrs.

Minor:

Zoology 120, 121, 122.....	12 qtr. hrs.
Electives in zoology numbered above 200.....	12
Total	24 qtr. hrs.

Cooperative Degree Programs**Medical Technology**

This program is administered by the Division of Pre-Medical Studies.

The curriculum in medical technology requires three years of study at Eastern Illinois University, followed by successful completion of a one-year program in medical technology in an affiliated hospital.

Course Requirements:

Botany 120, 335.....	8 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152.....	12
Chemistry 234, 343, 344.....	12
Mathematics: Four quarter hours of Mathe- matics required regardless of exemptions. Eight hours are required if student has no exemp- tions	4 or 8
Psychology 231.....	4
Zoology 120, 121, 225.....	12

Zoology 327 or 451.....	4
Courses to complete the general requirements for the degree, Bachelor of Science, and elective courses	92+(6)
Total, plus 6 qtr. hrs. nominal credit in physical education	144

The hospital program in medical technology is accepted in lieu of the remaining forty-eight quarter hours to complete the normal graduation requirement.

Engineering

This program is administered by the Division of Pre-Engineering Studies.

The curriculum has been planned to comprise three years of work at Eastern Illinois University and approximately two years of subsequent work in the College of Engineering at the University of Illinois. The degree, Bachelor of Science or Bachelor of Arts, is conferred by Eastern upon the granting of an engineering degree at the University of Illinois after completion of the prescribed program at Eastern. The purpose of this program is to provide engineering students with a broader base of liberal arts than is usually given in a four-year engineering curriculum.

Students who plan to enroll in this curriculum should have included in high school the courses recommended as preparation for the two-year pre-engineering curriculum described in Section VII.

The three years of work to be taken at Eastern prior to transferring to the University of Illinois comprise:

General Requirements:

The general requirements for the degree, Bachelor of Science or Bachelor of Arts.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122
Physics 130, 131, 132, 236, 239, 240
Mathematics 134, 235, 236, 345, 350
Mathematics 351 or 460
Industrial Arts 131

Electives:

Elective credit to bring the total to 144 quarter hours plus six quarter hours nominal credit in service courses in physical education.

After completing ninety-six quarter hours in this curriculum a student may apply to the pre-engineering committee for admission as an engineering candidate. The requirements for admission as an engi-

neering candidate are minimum grade-point average of 2.5 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.5.

The concentration in science and engineering is accepted in lieu of a major and a minor. If the complete record of a student includes the requirements for one or more majors and minors as defined in the majors and minors for the degrees, Bachelor of Science and Bachelor of Arts, these will also be certified on the student's record.

A student who transfers into this curriculum from another college or university must be in residence at Eastern Illinois University for at least one quarter before he becomes eligible for admission as an engineering candidate.

Pre-Medicine

This program is administered by the Division of Pre-Medical Studies.

There are two pre-medical curriculum plans which may lead to the degree, Bachelor of Science or Bachelor of Arts.

PLAN I:

This plan provides for the conferring of the baccalaureate degree with a major in zoology and a minor in chemistry upon completion of three years of stated requirements at Eastern Illinois University and forty-eight quarter hours of specified courses at the College of Medicine at the University of Illinois. Students who enter other medical schools will be considered on an individual basis.

The requirements for graduation are as follows:

General Requirements:

The general requirements for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122

Chemistry 234, 343, 344

Zoology 110, 111, 212, 214, 215

Physics 130, 131, 132

Electives:

Elective credit to bring the total course work at Eastern to 144 quarter hours plus six quarter hours nominal credit in service courses in physical education.

Transfer Credit:

The transfer of forty-eight quarter hours of approved credit from the University of Illinois College of Medicine.

The transfer of this credit is contingent upon the following:

1. The student must be in good standing in the College of Medicine.
2. Residence requirements for a baccalaureate degree at Eastern must have been met.

The following courses at the College of Medicine are acceptable to complete the major and minor at Eastern:

1. Biochemistry 301, 302, 303 (66 hours in lecture and 88 hours in laboratory—9 quarter hours)
2. Physiology 301, 302, 303 (90 hours in lecture and 49 hours in laboratory—15 quarter hours)
3. Histology (64 hours in lecture and 160 hours in laboratory—12 quarter hours)
4. Gross Anatomy (64 quarter hours in lecture and 160 hours in laboratory—12 quarter hours)

PLAN II:

This plan leads to the degree, Bachelor of Science or Bachelor of Arts, prior to entering medical School. The plan provides for either an inter-departmental pre-medical studies major or a regular departmental major and minor.

The requirements for graduation are as follows:

General Requirements:

The student must meet all of the general requirements for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

If the interdepartmental major is chosen, the student must complete the following courses:

Chemistry 150, 151, 152; or 120, 121, 122

Chemistry 234, 343, 344

Chemistry electives—12 quarter hours

Zoology 110, 111, 212, 214, 215

Zoology electives—16 quarter hours

Physics 130, 131, 132

Mathematics 134, 235, 236

The student who chooses to complete a departmental major and minor will follow the regular requirements for the degree, Bachelor of Science or Bachelor of Arts.

Admission to Candidacy:

Students are required to make application for admission as pre-medical studies candidates upon completing sixty quarter hours of courses and before completing eighty-four quarter hours of credit. Requirements for approval of this appli-

cation include a minimum grade-point average of 2.5 and approval by the pre-medical committee. The pre-medical committee will consider grades in science courses, impressions and findings resulting from personal interview, and the advice of the university physician regarding the physical fitness of the candidate.

Students who are not approved as candidates must transfer from the Division of Pre-Medical Studies into another curriculum.

Continuation as a pre-medical studies degree candidate requires the maintenance of a minimum grade-point average of 2.5.

A student who transfers from another institution to Eastern Illinois University must be in residence at least one quarter before he can be admitted as a pre-medical studies degree candidate. He must meet all residence requirements for a baccalaureate degree.

Pre-Law

There is no formal curriculum for pre-legal studies. Students are referred to advisers who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with a major and a minor in standard academic disciplines.

VII. Non-Degree Programs

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his adviser without the formality of application for a waiver, except that English 120, 121, Speech 131, and service courses in physical education must be taken as indicated.

PRE-ENGINEERING

These programs are administered by the Division of Pre-Engineering Studies.

General

Students planning to enroll in pre-engineering are advised to include the following subjects in their high school programs.

Mathematics—4 or more units, including trigonometry

Science—3 or more units, including chemistry and physics

Foreign Language—2 or more units, including two units in the same language

Students deficient in any of these courses should expect their graduation from a College of Engineering to be delayed.

First Year

English 120, 121, Industrial Arts 131.....	12 qtr. hrs.
Mathematics 134, 235, 236.....	12
Physics 130, 131, 132	12
Chemistry 150, 151, 152; or 120, 121, 122.....	12
Physical Education	(3)

Note: Students who do not have prerequisites for Mathematics 134 must start with 130 or 131; see course descriptions in Section X for prerequisites.

Second Year

Mathematics 345, 350, 351.....	12 qtr. hrs.
Physics 236, 239, 240.....	12
Humanities, as outlined by adviser.....	12
Social Science, as outlined by adviser.....	12
Physical Education	(3)

Note: Students who do not have two years in the same foreign language in high school should add twelve quarter hours in a foreign language.

Chemical

First Year

Chemistry 150, 151, 152.....	12 qtr. hrs.
If prerequisites are lacking, the student may take 120, 121, 122.	
English 120, 121.....	8
Industrial Arts 131 or 231.....	4
Mathematics 134, 235, 236.....	12

Students who do not have prerequisites must start with 130 or 131; see course descriptions in Section X for prerequisites.

Physics 130, 131, 132.....12

Students lacking two units in high school German, French, or Russian should enroll in one of these languages and postpone Physics 130, 131, 132 to the second year.

Physical Education(3)

Second Year

Chemistry 343, 344, 345.....12 qtr. hrs.

Mathematics 345, 350, 351.....12

Physics 236, 239 8

Speech 131, or elective..... 4

Foreign Language (one year French, German, or Russian)12

Note: Physics 130, 131, 132 should be substituted here if language was taken in first year.

Physical Education(3)

Two years of French, German, or Russian are required in the chemical engineering curriculum at most universities.

PRE-MEDICAL AND RELATED STUDIES

These programs are administered by the Division of Pre-Medical Studies.

Pre-Dentistry

The courses in this curriculum will enable the student to become a candidate for admission to most schools of dentistry. It is strongly urged, however, that students complete three years of pre-dental work. All applicants will be required to take a dental aptitude test given by the American Dental Association.

First Year

Chemistry 120, 121, 122; or 150, 151, 152.....12 qtr. hrs.

English 120, 121..... 8

Speech 131 4

Mathematics 130, 131..... 8

Zoology 120, 121, 225.....12

Elective 4

Physical Education(3)

Second Year

Chemistry 234, 343, 344.....12 qtr. hrs.

Physics 130, 131, 132.....12

Electives24

Physical Education(3)

Note: It is recommended that the electives include history, economics, philosophy, sociology, and a modern language.

Pre-Nursing

For students interested in nursing who choose to attend Eastern Illinois University for one or two years before going to a hospital school, a program may be planned to include basic courses in chemistry, zoology, English, social studies, and humanities.

For students interested in completing their work in a program leading to the degree, Bachelor in Nursing, it is suggested that they consult with the Director of the School of Nursing that they wish to attend.

Pre-Optometry

Schools of optometry usually require two years of pre-professional work.

First Year

English 120, 121	8 qtr. hrs.
Speech 131	4
Chemistry 120, 121, 122; or 150, 151, 152	12
Zoology 120, 121, 225	12
Mathematics 130, 131, 134	12
Physical Education	(3)

Second Year

Physics 130, 131, 132	12 qtr. hrs.
Psychology 231	4
Elective (Social studies, humanities, history)	32
Physical Education	(3)

Pre-Pharmacy*One Year*

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 121	8
Speech 131	4
Mathematics 130, 131, 134	12
Electives to be selected in terms of the requirements of the College of Pharmacy selected by student	12

Pre-Veterinary Medicine

This two-year program is designed to prepare students for admission to schools of veterinary medicine. Four years of professional study, preceded by two years of college study, are required in typical schools.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 121	8
Speech 131	4
Mathematics 130, 131	8

Botany 120	4
Zoology 120, 121	8
Elective	4
Physical Education	(3)

Second Year

Chemistry 234, 343, 344	12 qtr. hrs.
Physics 130, 131, 132	12
Foreign Language	12
Electives	12
Physical Education	(3)

Note: The recommended electives should include no fewer than two of the following fields: history, anthropology, economics, geography, political science, psychology, or sociology.

PRE-AGRICULTURE, HORTICULTURE, FLORICULTURE, AND FORESTRY

First Year

English 120, 121, Speech 131	12 qtr. hrs.
Botany 120, 121, 222	12
Chemistry 120, 121; or 150, 151	8
Health Education 120	4
Electives	12
Physical Education	(3)

Second Year

Botany 231, 232, 233 or 335	12 qtr. hrs.
Geography 140 or Elective	4
Zoology 120, 121	8
Electives	24
Physical Education	(3)

Note: If vocational agriculture is planned, Psychology 231 and Education 232 should be added.

Students who plan to study forestry should take Chemistry 122 or 152 and Mathematics 130, 131, 134 in the first year. The second year's program should be planned after consultation with the College of Forestry the student plans to enter.

Recommended electives: Botany 230, Zoology 122, Geography 140, 141, 142, 151, 243, History 233, 234, 235, Economics 254, 255, 256, Industrial Arts 231, 232, 233.

PRE-CONSERVATION

A sub-professional curriculum which has been developed with the advice of administrators and technicians of the Soil Conservation Service is offered.

First Year

English 120, 121, Speech 131	12 qtr. hrs.
Mathematics 130, 131	8

Botany 120, 121, 222	12
Chemistry 120, 121, 122; or 150, 151, 152	12
Geography 140 or 141 or 142	4
Physical Education	(3)

Second Year

Physics 130, 131	8 qtr. hrs.
Geography 141, 142, 380, 387, 360	20
Industrial Arts 231	4
History 234, 235	8
Electives	8
Physical Education	(3)

PRE-GEOLOGY

The courses in this curriculum correspond closely to freshman and sophomore courses ordinarily required in curricula in Geology.

First Year

English 120, 121, Speech 131	12 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12
Mathematics 130, 131, 134	12
Geography 140, 141, 243	12
Physical Education	(3)

Second Year

Physics 130, 131, 132	12 qtr. hrs.
Mathematics 235, 236, 345	12
Industrial Arts 231	4
Geography 244, 343, 345	12
Electives	8
Physical Education	(3)

PRE-JOURNALISM

The program suggested below is designed to provide a general background for prospective journalism majors. Students with definite plans for transfer should consult the requirements of the journalism school to which they intend transferring and adjust their programs accordingly.

First Year

English 120, 121, Speech 131	12 qtr. hrs.
Laboratory Science (year)	12
Journalism 210, 211, 212	12
Electives	12
Physical Education	(3)

Note: Students should elect a year of foreign language. History 246, 247, 248 are strongly recommended.

Second Year

English 260, 261, 250 or 270.....	12 qtr. hrs.
History 233, 234, 235.....	12
Electives	24
Physical Education	(3)

Note: Following are recommended electives: Geography 150, 151, Music 229, Industrial Arts 259, 260, Economics 254, 255, 256, Political Science 100, 110, 111, 112, Sociology 271, 272.

PRE-LAW

There is no formal curriculum for pre-legal studies. Students are referred to advisers who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with a major and a minor in standard academic disciplines.

TWO YEAR GENERAL CURRICULUM

This curriculum offers a wide choice of electives but requires that they conform to a pattern which encourages both depth and breadth of education. The curriculum is recommended to students who have not yet decided upon a field of major interest and wish to explore several fields, to students who have definite plans for transferring to other colleges at the end of the first two years, and to students who wish to round out their education with two years of general college work.

First Year

English 120, 121, Speech 131.....	12 qtr. hrs.
Laboratory Science	12
Electives	24
Physical Education	(3)

Note: The laboratory science may be one year of botany, chemistry, physics, zoology, or general physical science.

Electives must be selected so that the four subjects are in four different fields. Courses in Education may not be counted as electives.

Second Year

History 233, 234, 235.....	12 qtr. hrs.
Foreign Language	12
Electives	24
Physical Education	(3)

Note: If the student has had two acceptable units of foreign language in high school he may substitute an elective.

Electives should be the second year in some subject studied during the first year.

VIII. Extension Services

ESTABLISHING CENTERS

Extension courses are assigned to centers where it is likely that needs and enrollment will justify the service. All requests from county superintendents, unit administrators, and groups of teachers are carefully considered in planning the extension offerings.

Requests for courses should be filed well in advance of the time the course may be desired. The University reserves the right to cancel scheduled classes where there is evidence that the enrollment will be inadequate.

ENTRANCE REQUIREMENTS

Undergraduate extension courses are open to high school graduates. However, admission to undergraduate extension courses does not constitute admission to the university. An application for admission must be filed at the time of registration the first time a student registers for an undergraduate course.

A student enrolling in graduate courses is subject to the same entrance requirements as one enrolling in comparable courses taught in residence. He must file an application for admission at the time of registration the first time he registers for a graduate course.

REGISTRATION PROCEDURES

Students register and pay fees by mail. The instructor will furnish students with registration material at the first and second class sessions. Enrollment procedures will be explained by the instructor at that time. The \$15 fee applies to both graduate and undergraduate students who are applying for admission to either the graduate or the undergraduate school for the first time. The completed forms and fees are mailed to the Business Office.

FEES

Application Fee

All students applying for admission to the University for the first time are required to pay a \$15.00 non-refundable application fee. The fee must accompany the application for admission.

Course Fees

The fees are \$6.00 per quarter hour of credit. In addition, a \$2.50 book rental is charged each student.

Regular fees are required of students auditing a course.

CREDIT

Credit (in most cases, four quarter hours) is given in the course description.

Persons not interested in receiving credit may audit courses by receiving permission from the instructor.

SCHOLARSHIPS

Teacher Education Scholarships may not be used on extension. Military Scholarships may be used on extension.

SCHEDULE OF CLASSES

The schedule for extension classes is published annually in the Extension Bulletin. Classes meet in weekly periods of one hundred fifty minutes for sixteen weeks, i.e., from 7 p.m. to 9:30 p.m., once per week. Address all requests for bulletins and other inquiries to the Director of Extension.

IX. Graduate Degree Programs

GRADUATE STUDY

Admission and Readmission

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university. Admission to courses is not to be interpreted as admission to candidacy for a degree.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least thirty days before the first registration for graduate courses and must be accompanied by a \$15 non-refundable application fee. Former students who return to the university after a lapse of one or more quarters must apply for readmission at least ten calendar days prior to the official registration day of the quarter in which they wish to enroll. Application blanks may be secured from the office of the Dean of the Graduate School.

Graduate Study in the Senior Year

During the final quarter of residence in undergraduate work, a student may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The proper application forms must be completed prior to enrolling in the graduate courses.

Graduate Assistantships

Graduate assistantships are available in the major field departments and certain administrative offices. The assistantships carry a stipend of \$180 per month and appointments are for the academic year or summer sessions. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses. Further information on assistantships may be obtained by writing to the Dean of the Graduate School or the major department.

GENERAL REGULATIONS AND REQUIREMENTS

Scholastic Load

The maximum amount of credit toward a graduate degree that may be earned in full-time residence in any quarter of the academic year is sixteen quarter hours. The maximum that may be earned in

an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

The maximum load for the summer eight-week graduate term is twelve quarter hours.

Residence Requirement

At least thirty-six quarter hours of credit toward the master's degree must be earned in residence courses at the university. One quarter in the academic year or two summer terms must be spent in full-time residence.

For the Specialist in Education degree, at least forty-eight quarter hours must be earned in residence credit at the university. One quarter in the academic year or two summer terms must be spent in full-time residence.

Residence credit is given for evening and Saturday courses on the campus. No credit is allowed for correspondence courses.

Transfer Credit

A maximum of twelve quarter hours of acceptable transfer and/or extension credit may be applied toward a master's degree.

Adviser

Each student who wishes to become a candidate for a degree is assigned to an adviser. It is the responsibility of the adviser to counsel with the student in his choice of courses, to sponsor his application for admission to candidacy, to approve his paper or study, and to arrange his examinations. Other faculty members may be appointed to share any of these responsibilities.

Time Limit

The program for the master's degree must be completed within six consecutive years; that for the Specialist in Education degree must be completed within four years after admission to candidacy. An extension of time may be granted only when a delay has been caused by circumstances beyond the control of the student.

MASTER'S DEGREES

Master of Science in Education Degree

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Admission to Candidacy. The student must petition for admission to candidacy for the Master of Science in Education degree on a form supplied by the Dean of the Graduate School. The petition must contain the proposed program of courses and be approved by the student's adviser.

The following requirements must be met at the time of filing the petition, or between the time the petition is filed and the time it is considered by the Council on Graduate Studies:

1. An applicant who does not have the B.S. in Ed. degree from Eastern must submit evidence that he has had the necessary courses in education and student teaching. (Usually one who holds a regular teacher's certificate valid in Illinois can meet this requirement). Any deficiencies prescribed by the Council on Graduate Studies must be made up through additional undergraduate courses to be taken without credit toward a degree.

2. The Graduate Record Examination must be taken. This may be scheduled through the University Testing Services or the Graduate School.

3. Twelve quarter hours of courses in the proposed program must be completed at this university, with grades of 3.0, except that this requirement is waived for students possessing an undergraduate grade-point average of 3.0 or better.

4. Grades in all graduate courses taken at the time the petition is considered, including those which may not have been included in the proposed program, must average at least 2.5.

5. The student must complete such deficiencies as the Council on Graduate Studies may prescribe if he did not rank in the top two-thirds of his undergraduate class or, if rank cannot be determined, hold a cumulative undergraduate grade-point average of 2.5 or more.

6. The student must present supporting evidence of the possession of desirable personal qualities of a teacher.

7. The student must secure admission to candidacy prior to beginning the final 24 quarter hours of a proposed program.

Program of Studies. The proposed program of studies included as a part of the petition for admission to candidacy must conform with the stipulations and purposes contained in the following paragraphs.

The program must include 48 quarter hours, of which at least 36 quarter hours are in courses numbered 500 or above.

The program is based on the assumption that the personal and professional competence sought by the candidate has at least three contributing factors: basic educational theory, specialized professional knowledge and experiences, and continued cultural and intellectual development independent of the field of concentration. These factors are the basis for the division of the program into three groups, as presented below:

GROUP I—BASIC EDUCATION COURSES

It is the purpose of the courses of this group to present aspects of fundamental educational theory. Three courses or 12 quarter hours must be chosen from the following:

- Education 550. Principles of Curriculum Development
- Education 551. Social Foundations of Education
- Education 552. Understanding the Individual
- Education 553. Philosophy of Education
- Education 554. History of Educational Thought

It is recommended that no more than one of these courses be taken in any quarter or summer term.

A student may petition for a proficiency examination in any of these courses. Successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

GROUP II—AREA OF CONCENTRATION

The courses of this group are intended to constitute an area of specialization. They may be taken in a single department or in more than one department. The unifying principle is their significance to the teaching field or the specialized professional work of the candidate. An important consideration in admission to candidacy for the degree, Master of Science in Education, is the unity displayed in the selection of the courses of this group. Courses totaling 24 or 28 quarter hours credit must be taken in Group II. Typical areas of concentration are the following:

- Art
- Audio-Visual Education
- Biological Sciences
- Business Education
- Educational Administration
- Elementary Education
- English
- Foreign Languages
- Geography
- Guidance and Counseling
- History
- Industrial Arts
- Mathematics
- Music
- Physical Education—Men
- Physical Education—Women
- Physical Sciences
- Social Sciences
- Speech

GROUP III—GENERAL EDUCATION

The courses of this group are intended to implement the assumption that continued cultural and intellectual development independent of the field of concentration may contribute significantly to professional and personal competence. It is intended that these courses shall provide new intellectual experiences, consequently, they should be chosen in fields that are new to the student. They assume intellectual maturity but little or no previous introduction to the field of study. Normally a student is eligible to take a Group III course if he has taken no more than twelve quarter hours in that field. Courses totaling 12 or 8 quarter hours credit must be taken in Group III.

The following courses are currently acceptable in Group III: Anthropology 550; Art 550, 551; Botany 550, 551, 552; Business 550; Classics 550, 551 (Literature in Translation); Economics 550; English 550, 551; Geography 550, 551, 552; History 550, 551, 552; Industrial Arts 550; Mathematics 550; Music 550, 551; Philosophy 550; Physical Education 550, 551; Political Science 550; Zoology 550, 551.

The Paper. Each candidate who is granted the degree, Master of Science in Education, must present evidence of his ability to conduct an independent study and to report his findings in writing of a quality appropriate to the master's degree level of maturity. The report must be in a style and form acceptable in formal writing. It is recommended that the subject of the paper grow out of an aspect of Group II of the candidate's program of studies. The candidate may elect one of two plans for satisfying this requirement.

PLAN A. Candidates electing to complete requirements under this plan may register, and receive four quarter hours of credit toward graduation with the credit included as a part of Group II. The student's adviser may act as adviser for the paper or another faculty member may, with the consent of the Graduate Dean, be designated to take this responsibility. It is recommended that the paper be read by at least two members of the Graduate Faculty other than the adviser before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to elect Plan A.

It is required that the original and first carbon copy of the paper submitted under Plan A, appropriately bound, be deposited in the University Library. An abstract of the Plan A paper is also required.

PLAN B. Candidates electing to complete requirements under this plan may submit a term paper from a course in Group II in fulfillment of the requirement. To be acceptable for this purpose, the paper must be so certified by the candidate's adviser and the instructor of the course in which the paper is submitted.

It is required that the original copy of the paper submitted under Plan B, appropriately bound, be deposited in the office of the Dean of the Graduate School.

The Examination. An examination is required of all candidates for the degree, Master of Science in Education, during the final term of work. The purposes of the examination are to test the achievement of the student with respect to the purpose of his program of studies and to promote the integration of his studies.

The examination is given by a committee appointed by the adviser. It may be written, or oral, or both. The passing of the examination must be certified by the adviser at least two weeks before graduation.

Master of Arts and Master of Science Degrees

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following departments have been authorized to offer the Master of Arts and Master of Science degrees:

Master of Arts

English
History
Mathematics
Music
Speech

Master of Science

Botany
Physics
Speech Correction
Zoology

Admission to Candidacy. The student must petition the major department for admission to candidacy, presenting a proposed program of courses. (See below.) Petition forms may be obtained from the Office of the Dean of the Graduate School. At the time the petition is filed, the following requirements must be met:

1. There must be adequate undergraduate preparation in the major field. Any deficiencies, as determined by the major department, must be made up without credit toward the degree.

2. The Graduate Record Examination must be taken. This may be scheduled through the University Testing Services or the Graduate School.

3. The candidate must have completed at least one course in his major field and his grade in that course and all other courses listed on his petition for admission to candidacy must average 3.0. The requirement of the completion of one course is waived for students possessing an undergraduate grade-point average of 3.0 or better.

4. The candidate must not have completed more than 24 quarter hours of his proposed program at the time of filing his petition for admission to candidacy.

Program of Studies. The program of studies may include work in a single discipline or a major in one discipline and a minor in another closely related one. Where a major and a minor are proposed, the major must comprise 32 or 36 quarter hours, and the minor, 16 or 12 quarter hours. (For further details on majors and minors, see the *Graduate Bulletin*.)

At least 36 quarter hours of the proposed program must be in courses numbered 500 and above.

Four quarter hours, or more, of the major shall be reserved for a thesis. An exception to this requirement is made in departments where independent research would be required and the formality of a thesis would be impractical. The student's adviser may act as adviser for the thesis or another faculty member may, with the consent of the department, be designated to take this responsibility.

The student's program, as approved by the department, must be filed in the Graduate School office. Deviations from the program may be permitted only on approval of the major department, with notification of such approval being filed in the Graduate School office by the department head.

The Examination. Each candidate for the M.A. and M.S. degree must undergo a comprehensive oral or written examination or both. This is given by his department and covers his major field. The purpose of the examination is to test his scholarly attainments in his discipline. The department may remand a student to further work if he fails to perform satisfactorily in this examination.

Graduation Requirements

The master's degree is conferred upon:

1. The completion of the approved program of studies of 48 quarter hours with grades that average B (3.0) or higher and with no more than eight quarter hours of courses with grades below B.

2. Certification by the adviser not later than the middle of the last term of residence that an acceptable paper or research project has been completed and approved.

3. Filing of the formal papers and abstracts (if required) in the proper depositories.

4. Satisfactory performance in a comprehensive examination.

5. Passing an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States, and the Constitution of Illinois. This requirement may be waived if the candidate passed the examination as a requirement for an undergraduate degree at one of the state universities in Illinois within ten years of application for the graduate degree.

6. Completion of special departmental requirements, if any.

7. Applying for graduation and paying the \$15 graduation fee no later than the official registration day of the quarter or summer session in which the candidate plans to graduate. (The application is filed at the Records Office and the fee paid at the Business Office.)

8. Providing a photograph, size not larger than $1\frac{1}{2}$ x $2\frac{1}{2}$ inches, for the files of the Records Office.

9. Registering or revising previous registration with the Placement Bureau.

All requirements are subject to the rules governing residence, transfer of credit, and extension credit.

Graduation Honors

A master's degree candidate who earns a 3.9 grade-point average for the forty-eight quarter hours of his program receives the honors designation "With Distinction." Such honors will be entered on the candidate's diploma and permanent record.

SPECIALIST IN EDUCATION DEGREE

Aim

It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel in educational administration.

Field

The Specialist in Education degree is offered in the field of educational administration.

Admission to Candidacy

The student must petition for admission to candidacy. The petition must contain the proposed program of studies and be approved by the student's adviser.

The following additional requirements must be met when the petition is filed, or at least prior to consideration of the petition by the Council on Graduate Studies:

1. The student should have completed 48 quarter hours of his proposed program, but not more than 64 quarter hours.

2. The Graduate Record Examination must be taken. The Examination may be scheduled through the University Testing Services or the Graduate School.

3. Evidence of an evaluation by the department of the student's record to date must be presented. (If a master's degree was taken independently of the Specialist in Education program, the courses taken for the degree will be evaluated and there is no assurance that all credit hours will automatically count toward the Ed.S. degree.)

4. The student must pass a comprehensive examination, either written or oral, or both.

5. Evidence must be presented of approval by the major department's screening committee.

Program of Studies

The courses proposed in the student's program for the Specialist in Education degree must total 96 quarter hours and are divided into Phases I and II as described below. Ordinarily, in the first 48 quarter hours the student will complete the requirements for a master's degree although it is not required that the master's degree be completed within the first half of the total program.

The final 48 quarter hours of the Ed.S. degree program are specifically planned to satisfy certification and accreditation requirements and include the major field and supporting academic minor.

PHASE I. Earning the master's degree with a major in educational administration will usually satisfy this requirement. For details on the program of studies for the master's degree see pages 126-130 of this catalog. The courses for Phase I must total at least 48 quarter hours.

PHASE II. The major field part of Phase II must total 28 quarter hours. The major department has developed a program of courses not only to meet certification requirements but also to develop further the student's professional competence. This program can be secured from the department.

The academic minor part of Phase II must total 20 quarter hours. It is recommended that these courses be taken in fields that will bring greater understanding and support for the major. Recommended are certain courses in the social sciences, business, history, and psychology. For more specific lists of eligible courses, consult with the department.

The courses in Phase II of the Specialist in Education degree program must total 48 quarter hours.

Final Examination

The candidate for the Specialist in Education degree must stand a final comprehensive examination which may be written or oral, or both. This examination is given by a committee appointed by the adviser. The passing of this examination must be certified by the adviser at least two weeks before completion of the requirements for the Ed.S. degree.

Graduation Requirements

The regulations concerning grade requirements and graduation are virtually the same for the Specialist in Education degree as they are for the master's degrees. For details see page 131 in this catalog.

Graduation Honors

Graduation honors will be conferred upon those Specialist in Education degree candidates whose records warrant recognition for distinction. Such honors will be entered on the graduate's diploma and permanent record.

X. Description of Courses

NUMBERING OF COURSES

Courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses. Courses numbered 300-499 are not open to freshmen or sophomores except that courses numbered 300-499 in mathematics, foreign languages, and chemistry may be taken by underclassmen who have completed the prerequisite courses and have obtained the permission of the department.

Courses numbered 100-199 may not be taken for full credit by seniors except for courses in foreign languages. Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School.

Courses numbered 550-599 are open only to graduate students and, therefore, may not be used for credit toward a bachelor's degree. Certain courses numbered between 450 and 499 may be taken for credit toward the Master's degree.

COLLEGE OF LETTERS AND SCIENCE

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Geography	181
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History	188
Journalism	197
Library Science	198
Mathematics	200
Philosophy	206
Physical Science	209
Physics	209
Political Science	214
Psychology	218
Social Science	221
Sociology	221
Speech	223
Speech Correction	226
Theatre Arts	230
Zoology	232

ANTHROPOLOGY

(Taught in the Department of Sociology)

UNDERGRADUATE COURSES**273. Introduction to Anthropology.** Every quarter. (4 q. hrs.)

A study of the races of the world, pre-literate culture, kinship systems, major institutions and social structure. Students are advised to take this course prior to enrolling in courses in sociology.

360. Peoples and Cultures of South America. (4 q. hrs.)
Winter.

The pre-Colombian background; contemporary races, culture and social organization of selected Latin American societies. The emergence of Latin America as a distinct culture area in the modern world.

Prerequisite: Anthropology 273 or consent of the instructor.

367. Introduction to Prehistoric Archaeology. Fall. (4 q. hrs.)

A systematic introduction to the history, method, and theory of archaeology which will investigate the aims of archaeology and the interpretation and analysis of prehistoric cultures.

Prerequisite: Anthropology 273 or consent of the instructor.

369. American Indians. Winter. (4 q. hrs.)

A survey of the native populations of North America stressing the importance of cultural adaptation to environment.

Prerequisites: Anthropology 273, and Sociology 271, or consent of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

552. Cultural Anthropology. Summer. (4 q. hrs.)

An introduction to the scientific study of man and his culture. Cross cultural comparison of the major social institutions.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

ART

Professors: Countryman (Head), Shull, Trank

Associate Professors: Leipholz, Stapp

Assistant Professors: Bodine, Emmerich, Heyduck, Hyett, Knoop, Krutza, Settle, Watkins

Instructors: Andermann, DeRuiter, Eads, Hinson, McRoberts, Moldroski, Neitzel, C. E. Wilen

NOTE: Studio courses meet for three double periods and one single period which is used for planning, discussions, and reports. Additional discussions may be incorporated into the studio hours.

Certain courses require the purchase of materials by the student. In such cases, completed projects become the property of the student. The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES

100. Drawing I. Every quarter. (4 q. hrs.)

Freehand drawing in various media; studies from nature designed to develop an interpretative approach.

101. Drawing II. Every quarter. (4 q. hrs.)

Drawing from life; a development of individual expression and a continuing study of drawing technique.

Prerequisite: Art 100. For Art majors and minors only.

110. Design I. Every quarter. (4 q. hrs.)

Introduction to basic aspects of design problems dealing with color, texture, line, form, and organization.

Credit is not granted to students who have received credit in Art 140.

111. Design II. Every quarter. (4 q. hrs.)

Development of three-dimensional organization of forms using various media.

Credit is not granted to students who have received credit in Art 319.

140. Introduction to Art. Every quarter. (4 q. hrs.)

Study of the functions of art in our environment. Studio problems provide creative experiences in designing with a variety of two and three-dimensional media.

Prerequisite: Enrollment in the curriculum for elementary and junior high school teachers. Credit is not granted to students who have received credit in Art 110.

160. Introduction to Visual Arts. Fall and Winter. (4 q. hrs.)

Nature of art as revealed in works of painting, sculpture, architecture, and minor forms of art.

For art majors and minors only.

205. Painting I. Every quarter. (4 q. hrs.)

Introduction to painting as a medium of expression; variety of approaches and media explored.

Prerequisite: Art 100 or Art 110.

225. Ceramics I. Every quarter. (4 q. hrs.)

Introduction to various hand-building techniques; decorative methods; firing process; use of potter's wheel.

Prerequisite: Art 110 or 111 or 140, or permission of instructor.

244. Art for Teachers in the Elementary Grades.

Every quarter. (4 q. hrs.)

Developmental stages of children's artistic activity; motivation, classroom management, and appropriate use of art media for each stage stressed. Studio experiences with wide variety of art media.

Prerequisite: Art 140.

245. Theory and Practice of Art in the Elementary School. Winter. (4 q. hrs.)

Theories of child art such as those of Lowenfeld, McFee, Goodenough, and Arnheim; developments in children's expressions; evaluating children's progress in art.

Prerequisite: Art 244.

247. Theory and Practice of Art in the Junior High School. Spring. (4 q. hrs.)

Basic psychological and physical needs of young adolescents; visual-haptic tendencies; evaluation of student growth; development of sensitivity to aesthetic relationships.

Prerequisite: Art 244.

260. History of Art I. Fall. (4 q. hrs.)

Development of visual arts from pre-historic time to the medieval period; their use by man in his natural and social environment; the architecture, sculpture, painting, weaving, pottery, and other crafts of Egypt, Mesopotamia, Crete, Greece, and Rome.

For art majors and minors only.

261. History of Art II. Winter. (4 q. hrs.)

Art of the medieval period; the Renaissance through the seventeenth century; architecture of the Romanesque and Gothic periods; painting of the Renaissance; brief survey of the art of the Far East.

For art majors and minors only.

262. History of Art III. Spring. (4 q. hrs.)

General survey concerning the artistic achievements of man from the beginning of Mannerism to the present.

For art majors and minors only.

270. Introduction to Jewelry and Enameling I. Every quarter. (4 q. hrs.)

Decorative and constructive processes in the use of silver or other metals.

Prerequisite: Art 110 or 111 or 140, or permission of instructor.

280. Introduction to Weaving. Every quarter. (4 q. hrs.)

Procedures involved in dressing the loom. Production of various weaves on the loom and experimentation with color, textures, and materials.

Prerequisite: Art 140 or 110.

290. Lettering. Fall. (4 q. hrs.)

Design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush.

300, 301, 302. Drawing III, IV, V. Fall and Winter.

(4 q. hrs. for each course.)

Advanced drawing designed to develop individual sensitivity to form in two dimensions; development of an expressive and personal interpretation of dark and light shapes on a flat surface.

Prerequisite: Art 100, 101.

305, 306, 307. Painting II, III, IV. Every quarter.

(4 q. hrs. for each course.)

Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses.

Prerequisite: Art 205.

309. Survey of Two-Dimensional Art. Every quarter.

(4 q. hrs.)

Studio experiences in fine, medium, and broad line media to provide the student with basic knowledge of aesthetic expression through experiences in two-dimensional media.

Not open to students whose major is in art.

310, 311, 312. Sculpture I, II, III. Every quarter.

(4 q. hrs. for each course.)

Advanced work in three-dimensional organization of form; individual concentration toward competent expression in modeling, carving, and constructing.

Prerequisite: Art 111 or Art 225.

319. Survey of Three-Dimensional Art. Every quarter.

(4 q. hrs.)

A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts. Materials, skills and techniques necessary to create three-dimensional art forms.

Not open to students whose major is in art.

Credit is not granted to students who have received credit in Art 111.

325. Ceramics II. Fall. (4 q. hrs.)

Projects in hand building and throwing; study of ceramic bodies such as stoneware, porcelain, white wares.

Prerequisite: Art 225.

326. Ceramics III. Winter and Spring. (4 q. hrs.)

Projects in hand building, throwing, and ceramic sculpture; study of glaze materials and glaze calculations.

Prerequisite: Art 225.

327. Ceramics IV. Spring. (4 q. hrs.)

Projects in hand building, throwing, and ceramic sculpture; study of color in stoneware glazes.

Prerequisite: Art 225.

334. General Crafts. Every Quarter. (4 q. hrs.)

General course in crafts in which students may elect problems from block printing, enamels, jewelry, leathers, mosaics, and glass.

Not open to students whose major is in art.

340. The Teaching of Art. Fall. (4 q. hrs.)

Philosophy of art education; study of the developmental stages of creative activity from the first representational attempts through adolescent art; appropriate use of art media, motivation, and evaluation for each stage.

Prerequisite: Admission to teacher education.

341. Art Education Laboratory. Fall and Spring. (4 q. hrs.)

Studio experiences in techniques and processes and their adaptation to various stages of development, elementary through secondary.

Prerequisite: Art 340.

356. Print Making I. Fall and Winter. (4 q. hrs.)

Survey and laboratory exploration of four methods of print-making: relief, intaglio, planography, and stencil.

Prerequisite: Art 100 and 101.

357. Print Making II. Fall and Winter. (4 q. hrs.)

Intensive exploration of intaglio and serigraphy as two methods of print making; major emphasis on the intaglio method.

Prerequisite: Art 356.

358. Print Making III. Winter. (4 q. hrs.)

Advanced study of the relief and planographic methods of print making.

Prerequisite: Art 356.

360. Understanding Art. Every quarter. (4 q. hrs.)

Aesthetic problems and their solutions in various fields of art as related to man and his culture.

Not open to students whose major is in art.

361. Art in Past Cultures. Winter and Spring. (4 q. hrs.)

Comparative study of subject, form and content in art of past cultures as it relates to purpose and style.

Prerequisite: Art 360. Not open to students whose major is in art.

362. Art Forms of the Twentieth Century. Winter and Spring. (4 q. hrs.)

Origins and developments of form and content in twentieth century art.

Prerequisite: Art 360. Not open to students whose major is in art.

363. Classical Art. (Omitted 1967-68.) (4 q. hrs.)

Greek and Roman art, including architecture, painting, sculpture and the minor arts; study of major figures and dominant stylistic tendencies.

Prerequisite: One course in Art 260, 261, 262, or 360.

364. Medieval Art. Fall. (4 q. hrs.)

Arts of the Middle Ages in respect to the Early Christian, Byzantine, Romanesque, and Gothic, emphasizing in particular the transition from pagan art forms to Christian art forms.

Prerequisite: One course in Art 260, 261, 262, or Art 360.

365. Art of the Italian Renaissance. (Omitted 1967-68.) (4 q. hrs.)

Evolution and development of art forms in Italy during the fifteenth and sixteenth centuries; emphasis on the painting, sculpture and architecture of Florence, Rome, and Venice.

Prerequisite: One course in Art 260, 261, 262, or Art 360.

368. Twentieth Century Painting and Sculpture, 1905-c.1940.

Winter. (4 q. hrs.)

Major developments, personalities, and significant achievements in painting and sculpture of the twentieth century with emphasis on Picasso, Matisse, Klee, Brancusi, Calder, and Moore.

Prerequisite: One course in Art 260, 261, 262, or Art 360.

370, 371, 372. Jewelry and Silversmithing II, III, IV.

Winter and Spring. (4 q. hrs. for each course.)

Advanced problems in jewelry construction developing previously learned techniques in metal construction or enameling or both; introduction to basic silversmithing processes.

Prerequisite: Art 270.

380. Weaving II. Every quarter. (4 q. hrs.)

Study on the theory of weaving and continued work on multi-harness looms to perfect weaving skills. Designing and experimenting with various intricate weaves and materials of the weaver.

Prerequisite: Art 280 or permission of instructor.

390. Commercial Design I. Winter. (4 q. hrs.)

Lettering, posters, layout, current advertising problems. Silk screen, airbrush, and other printing techniques.

391. Commercial Design II. Spring. (4 q. hrs.)

Display advertising; concentration on three-dimensional design.

405, 406, 407. Painting V, VI, VII. Every quarter.

(4 q. hrs. for each course.)

Advanced painting in a series of individual problems courses; opportunity for further intensive development of each student's creative expression and craftsmanship.

Prerequisite: Art 305, 306, 307 and permission of the instructor.

410, 411, 412. Sculpture IV, V, VI. Every quarter. (4 q. hrs. for each course)

Advanced study of sculpture with an increasing depth of experience in form and material. Organization of an individual plan of work at a mature level.

Prerequisite: Art 310, 311, 312.

- 425, 426, 427. Ceramics V, VI, VII.** Every quarter.
(4 q. hrs. for each course.)

Development of techniques and processes to a level of professional attainment; emphasis upon growth in the area in which the student is most interested.

Prerequisite: Art 325, 326, 327 and permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 462. Art in America.** Winter. (4 q. hrs.)

Architecture, painting, and sculpture from colonial times to the present; emphasis on leading artists and their works as related to historical and sociological events in the growth of America.

Prerequisite: One course in Art 260, 261, and 262, or Art 360.

- 463. Twentieth Century Architecture.** (Omitted 1967-68.)
(4 q. hrs.)

Architecture of the twentieth century; its roots in the past, its forms, its materials, its masters, and its social impact.

Prerequisite: One course in Art 260, 261, and 262, or Art 360.

- 465. The Visual Arts in the Elementary and Junior High School.** Spring. (4 q. hrs.)

Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage.

Prerequisite: Art 244.

Not open to students whose major is in art.

- 469. Studies in Art History and Criticism.** Spring. (4 q. hrs.)
Seminar studies in painting, sculpture and architecture.

Prerequisite: Permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510. Materials for Designing I.** Every quarter. (4 q. hrs.)

Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

- 520. Painting Problems I.** Winter. (4 q. hrs.)

Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each according to individual choice.

Prerequisite: Three undergraduate courses in painting.

550. Contemporary Trends in Visual Arts. Spring. (4 q. hrs.)

Role and evaluation of visual arts in contemporary living.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Great Artists. (Omitted 1967-68.) (4 q. hrs.)

A cross-section of art history presented by the study of great artists.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Contemporary Printmaking. Fall and Winter. (4 q. hrs.)

A study of styles and techniques of contemporary printmakers.

Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.

560. Materials for Designing II. Every quarter (4 q. hrs.)

Advanced study of organization of form employing a variety of materials.

561. Advanced Drawing. Spring. (4 q. hrs.)

Development of personal expression in drawing and marking systems.

Prerequisite: Three courses in undergraduate drawing or permission of the instructor.

562. Watercolor. Winter. (4 q. hrs.)

Advanced study in various watercolor media.

Prerequisite: Three courses in undergraduate painting.

570. Painting Problems II. Winter. (4 q. hrs.)

Independent study in painting.

Prerequisite: Art 520.

571. Painting Problems III. Spring. (4 q. hrs.)

Emphasis is placed upon the construction and development of form.

Prerequisite: Art 520 and 570.

580. Research in Art Education. Winter. (4 q. hrs.)

Familiarization with research in art education, the study of methods and structure of research, and the initiation of research projects.

591. Problems in Art Education. Every quarter. (4 q. hrs.)

Statement, analysis and evaluation of current problems in the teaching of art in the public schools and junior college.

595. Thesis. (4 q. hrs.)**BIOLOGY**

(The courses in this section are taught by members of the Departments of Botany and Zoology.)

UNDERGRADUATE COURSES

Note: Biology 100, 116, 117 meet in two single periods and two double period laboratory sessions each week.

100. Life Science. Every quarter. (4 q. hrs.)

A study of the fundamental processes and structures common to all living things and which are therefore basic to an understanding of both plants and animals.

116. Life Science. Discontinued 1967. (4 q. hrs.)

A survey of the principal structures and processes of plants and animals including genetics and embryology.

No prerequisites. This course is restricted to students in the elementary education and junior high school curricula.

117. Life Science. Discontinued 1967. (4 q. hrs.)

A survey of the identification, natural history, distribution and economic importance of the principal animal and plant groups.

Prerequisite: Biology 116 or equivalent. This course is restricted to students in the elementary education and junior high school curricula.

BOTANY

Professor: Thut

Associate Professors: Arzeni, Britton, Whiteside

Assistant Professors: Balbach, Ebinger, Gray, Husa (Acting Head), Jeglum, Lackey, R. L. Smith, T. M. Weidner

Instructor: E. M. Kniskern

UNDERGRADUATE COURSES

Classes in all courses except Botany 232, 340, 350 meet in two single sessions and two double sessions each week.

101. General Botany. Every quarter. (4 q. hrs.)

A course designed to introduce the students to the anatomy, physiology, and morphology of the seed plant and to the diversification of plants in the plant kingdom.

Prerequisite: Life Science 100 or equivalent.

218. Vegetation of Illinois. Spring and Summer. (4 q. hrs.)

Use of local manuals and keys to identify common plants. A

study of ecological relationships by means of field trips, reference readings, and Kodachrome slides; preparation of demonstration material and herbarium specimens.

Prerequisite: Biology 116 and 117 or Biology 100 and Botany 101 or equivalent. Not open to Botany majors and minors.

222. (122) General Local Flora. Spring and Summer. (4 q. hrs.)

Plant distribution of North America; identification of trees, shrubs and herbs and the lesser plants by appropriate keys; knowing and appreciating common plants.

Prerequisite: Botany 101.

230. Morphology of Green Plants. Fall and Spring. (4 q. hrs.)

A comparative study of the vegetative structure and life histories of the green plants—algae, liverworts, mosses, ferns and fern allies, conifers.

Prerequisite: Botany 101.

231. Morphology of Fungi. Winter. (4 q. hrs.)

The structure, life histories and classification of fungi and their economic and ecological importance.

Prerequisite: Botany 101.

232. Economic Botany. Fall and Spring. (4 q. hrs.)

Plant propagation and environmental requirements of the greenhouse and field; plant products and their origins in world commerce and their use in manufacture. Field trips are taken to observe some of these activities.

Prerequisite: Botany 101.

233 (225). Applied Plant Physiology. Spring. (4 q. hrs.)

Physical processes relating to plant growth and development; water relations; soils and soil formation; mineral nutrition.

Prerequisite: Botany 101. A year of chemistry is recommended.

234. Food and Sanitary Microbiology. Every quarter.

(4 q. hrs.)

A course in microbiology for the Home Economics, Health Education, Elementary and Junior High curricula with emphasis on the identification and culture of bacteria, yeasts, molds, etc., and their relation to food preservation and sanitation.

Prerequisite: Sophomore college standing, and 3 quarters of laboratory sciences. Not to count toward a botany major or minor.

335 (235). Bacteriology. Every quarter. (4 q. hrs.)

A study of the occurrence, distribution, and culture of bacteria and other micro-organisms with emphasis on morphology and physiology.

Prerequisite: Botany 101. A year of chemistry is recommended.

340. Methods of Teaching Biological Science in the High School. Every quarter. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education.

345. Problems in Botany. Any quarter. (4 q. hrs.)

The student must submit an outline of his plan of work to the Department Head for approval and assignment to an instructor.

Prerequisite: Botany major or minor.

350. Genetics. Winter. (4 q. hrs.)

Problems of heredity in living organisms; Mendelian inheritance, hybrid segregation, fluctuations and mutations and the genetic background necessary to explain inheritance.

Prerequisite: Five quarters of biological science.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453 (343). Plant Microtechnique.** Winter. (4 q. hrs.)

The techniques of preparing permanent microscopic slides of plant material and an understanding of the part played by staining in producing superior teaching and research material.

Prerequisite: Two years of botany or its equivalent. A year of chemistry is desirable.

454 (344). Experimental Plant Physiology. Fall. (4 q. hrs.)

A qualitative and quantitative study by experiments and demonstrations of the biochemical processes that result in the growth and development of plants and the application of this knowledge in solving plant growth problems.

Prerequisite: Botany 233 and one year of chemistry.

456 (346). Plant Anatomy. Spring. (4 q. hrs.)

The origin and development of the tissues of leaves, stems, and roots of seed plants; the common ecological variations and hereditary types; wood anatomy and identification.

Prerequisite: Botany 230.

459 (349). Systematic Botany. Fall. (4 q. hrs.)

A detailed study of the Compositae, grasses and grass-like plants

of Illinois and current trends in plant classification and plant analysis. Field trips are made for the observation and collection of plants from various habitats.

Prerequisite: Botany 222.

461 (351). Plant Ecology. Fall and Spring. (4 q. hrs.)

A study of the major plant formations of North America with emphasis on the factors which influence the development of local communities. Weekend and local field trips are part of the course.

Prerequisite: Botany 222 and two advanced courses in botany or related fields. Botany 233 and 459 are recommended.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

530. Phycology. Spring. (4 q. hrs.)

A comparative morphological and physiological survey of the major groups of algae, including both fresh-water and marine forms. Special attention is devoted to the microbiology of selected genera.

Prerequisite: Botany 230.

532. Bryology. Fall. (4 q. hrs.)

A study of mosses and liverworts emphasizing their taxonomy, morphology, physiology, and ecology. Field work including identification, collection and herbarium methods plus research techniques are an important part of the work.

Prerequisite: Botany 230.

535. Advanced Bacteriology. Spring. (4 q. hrs.)

A systematic study of the important bacteria associated with health and sanitation of men; including work on infection, immunity, and serological procedures.

Prerequisite: Botany 335 and twelve quarter hours of chemistry.

538. Plant Pathology. Winter and Summer. (4 q. hrs.)

The causes and controls of plant diseases; consideration of representative plant diseases incited by bacteria, fungi, nematodes, and viruses.

Prerequisite: Botany 231.

550. The Science of Plant Life. Summer. (4 q. hrs.)

Fundamentals of plant science as experienced in everyday living and the common problems of the agriculturist and the home gardener.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Systematic Botany and Local Flora. Summer. (4 q. hrs.)

Identification of the trees, shrubs, herbs and lesser plants in this area; recognition of the common families of seed plants; appreciation of the plants outdoors and their geographical distribution.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Microbiology for Everyday Living. Summer. (4 q. hrs.)

A lecture-laboratory demonstration course with field trips to illustrate the application and control of bacteria, fungi, algae and other microorganisms concerned with various aspects of public health as related to food preservation, water purification, sewage disposal, etc.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Cytogenetics. Winter. (4 q. hrs.)

The study of cells with particular emphasis on the structure, function and chemistry of chromosomes; the evolution and variation of karyotypes; and the structure and function of other cell organelles.

Prerequisite: Botany 350.

561. Ecological Methods. Spring. (4 q. hrs.)

Vegetation and soil analyses, microenvironmental measurements and physiological procedures used in ecological studies.

Prerequisite: Botany 461.

564. Radiation Biology. Winter. (4 q. hrs.)

A course dealing with the application of radioisotope methodology to the biological sciences. Work includes instruction in experimental techniques, instrumentation, and radiation safety.

Prerequisite: Botany 454 or the equivalent.

569. Advanced Taxonomy. Fall and Summer. (4 q. hrs.)

The study of recent developments in plant taxonomy with particular emphasis on paleobotany, biogeography, cytogenetics, chemical, and ecological data to determine the evolutionary development of species.

Prerequisite: Botany 459.

575, 576, 577, 578. Advanced Botany. Any quarter. (4 q. hrs. for each course.)

Advanced work in some special field of botany. The student chooses the area in which he wishes to study, subject to the approval of his adviser.

Prerequisite: At least a minor in botany or its equivalent and the instructor's permission.

595. Thesis. (4 q. hrs.) Any quarter.

Study and investigation in botany for students electing Plan A paper for the M.S. in Ed. degree.

CHEMISTRY

Professors: W. N. Baker, Cunningham, Foreman, Marcy, Phipps (Head), R. J. Smith, Steele

Associate Professor: Hamerski

Assistant Professors: Ellis, C. D. Foote, A. J. Hoffman

Instructors: Henderson, N. D. Smith

Faculty Assistant: Tucker

UNDERGRADUATE COURSES

Chemistry 120, 121, and 122 is a year's sequence planned as a general cultural course. This sequence also serves as a foundation for further work in chemistry. Students with the necessary background should enroll in Chemistry 150, 151, 152 in place of Chemistry 120, 121, 122.

Note: A breakage fee of \$3.00 is charged for laboratory courses in chemistry. The unused portion is returnable at the end of the course.

All courses except Chemistry 342, 420, 421, 491, 556 and 557 have two classes and two two-hour laboratories per week. Chemistry 491 meets four times weekly. Chemistry 420, 421, 554, 555 have four two-hour periods weekly with conferences.

120, 121, 122. Introductory Chemistry. (4 qr. hrs. for each course.)

A study of the principles of chemistry, the more important non-metals and a few of the metals. Qualitative analysis and organic chemistry are introduced in the third term. The relationship of chemistry to many of today's problems is stressed.

To be taken in sequence. Credit is not granted to students who have received credit for Chemistry 150, 151, 152.

150, 151. General Chemistry. Fall and Winter.

(4 q. hrs. for each course.)

The principles of chemistry are studied with emphasis on bonding, stoichiometry, states of matter, kinetics and equilibrium.

Prerequisite: One unit of high school chemistry which included laboratory work and in which the grade B or A was earned, plus two and a half units of mathematics with C+ or better average.

To be taken in sequence. Credit not granted to students who have received credit in Chemistry 120, 121, 122.

152. General Chemistry and Qualitative Analysis. Spring. (4 q. hrs.)

A continuation of Chemistry 150, 151 with emphasis on ionic equilibrium and qualitative analysis.

Prerequisite: Chemistry 151.

Credit is not granted to students who have received credit in Chemistry 122.

153, 154, 155. Elementary and Organic Chemistry for Majors in Home Economics. 153, Fall. 154, Winter, and 155 Spring. (4 q. hrs. for each course.)

Basic principles of chemistry and some of the common classes of compounds are studied. Chemistry 155 introduces organic chemistry necessary for the understanding of carbohydrates, fats, proteins, textiles, dyes and plastics.

Restricted to home economics majors. To be taken in sequence.

234. Elementary Quantitative Analysis. Every quarter. (4 q. hrs.)

The general principles of volumetric and gravimetric analysis; critical evaluation of analytical data; theory of neutralization and redox reactions; introduction to colorimetry; extensive treatment of problems illustrating each topic.

Prerequisite: Chemistry 122 or 152; Mathematics 131.

243, 244, 245 (343, 344, 345). Organic Chemistry. (Chemistry 243, 244, Every quarter; Chemistry 245, Spring. (4 q. hrs. for each course.)

Studies of aliphatic and aromatic compounds with an introduction to the theories of organic chemistry and reaction mechanisms. Qualitative organic analysis is introduced in the laboratory portion of Chemistry 245.

Prerequisite: Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence.

330. Quantitative Analysis. Fall. (4 q. hrs.)

A study of the principles and practice of gravimetric and volumetric analysis, chemical stoichiometry and the evaluation of analytical data.

Prerequisite: Chemistry 122 or 152, 343.

Required of chemistry majors. Open to majors in mathematics and physics. Others with permission of department head. Credit not granted to students who have received credit in Chemistry 234.

342. Practicum in Chemistry. Every quarter. (1 q. hr.)

This course is designed to afford the future chemistry teacher some practical experience in laboratory teaching and in servicing the

laboratory. Two hours are to be spent assisting in an elementary chemistry laboratory and two hours in the storeroom each week.

Prerequisite: Two years of college chemistry.

Required of Chemistry majors in the junior year of B.S. in Ed. curriculum. Should be completed prior to student teaching.

356. Biochemistry. Spring. (4 q. hrs.)

A survey of the chemical principles involved in the study of mammalian organisms. The major topics are: the chemistry and metabolism of carbohydrates, lipids, proteins, and nucleic acids; introduction to the actions of enzymes, vitamins, hormones, coenzymes; principles of metabolic control.

Prerequisite: Chemistry 243 or 155 (Chemistry 234 is recommended).

361. Modern Inorganic Chemistry. Spring. (4 q. hrs.)

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. The laboratory work consists of the preparation of some representative compounds.

Prerequisite: Five quarters of college chemistry.

420, 421. Special Problems. Every quarter by arrangement.
(4 q. hrs. for each course.)

Laboratory problems selected in terms of the student's training and interest in some field of chemistry. Laboratory work, use of chemical literature and conferences with the instructor. Results are to be presented in the form of a written report, one copy of which is to be filed with the department office.

Prerequisite: Permission of instructor and department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

470. Instrumental Methods in Chemistry. (Omitted 1967-68).
(4 q. hrs.)

The principles involved in using various instruments and the techniques required for making chemical measurements. Study includes such subjects as colorimetry, chromatography, spectrophotometry, polarography, etc.

Prerequisite: Chemistry 235 and 343.

481. Qualitative Organic Analysis. (Omitted 1967-68.) (4 q. hrs.)

Eight to ten organic compounds and one or two bimolecular mixtures are identified by chemical and physical tests. Class work centers around interrelationships of organic families and how these are used to identify a compound.

Prerequisite: Chemistry 345 or simultaneous registration therein.

491, 492, 493. Physical Chemistry. Fall, Winter, Spring.
(4 q. hrs. for each course.)

A study of the principles governing chemical change. Included are: thermodynamics; equilibria; kinetic theory; the gaseous, liquid and solid states; solutions; atomic and molecular structure; electrochemistry, quantum theory and chemical kinetics.

Prerequisite: Chemistry 243, 330 (or simultaneous registration therein) or 234. Mathematics 235, 236 or simultaneous registration therein. To be taken in sequence.

494. Nuclear Chemistry. Fall. (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Prerequisite: Five terms of chemistry including 234 and/or 361, or permission of the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Seminar. (Omitted 1967-68.) (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 234 and 344, and permission of the head of the department.

501. History of Chemistry. (Omitted 1967-68.) (4 q. hrs.)

The sources of chemical information including abstracts, journals, texts and reference works are consulted in the study of the historical development of chemistry.

540 (480). Organic Mechanisms. (Omitted 1967-68.)
(4 q. hrs.)

A study of the mechanisms of reactions in organic chemistry.

Prerequisite: Chemistry 234, 344.

546. Biological Chemistry. Spring. (4 q. hrs.)

A study of the chemistry of biological materials, their isolation from tissues and the characterization of their structures and functions. Emphasis is placed on the metabolism of carbohydrates, lipids, proteins, and nucleic acids.

Prerequisite: Chemistry 234 and 243, or their equivalent, or permission of the head of the department.

556, 557 (450, 451). Advanced Chemistry. Every quarter by arrangement. (4 q. hrs. for each course.)

A problem is selected in the area of the student's major interest after consultation with the department head and the instructor. The methods used in solving scientific problems are developed through the use of literature, laboratory and consultations.

Prerequisite: Consent of the head of the department.

595. Thesis. (4 q. hrs.)

ECONOMICS

Professors: McConkey (Head), Plath

Associate Professor: Murad

Assistant Professors: Burke, Hooks, Kesler, Basti

Instructor: R. D. Roderick

UNDERGRADUATE COURSES

254. Principles of Economics. Every quarter. (4 q. hrs.)

The nature of economics, the American economic system, business organization, personal finance, labor-management relations, government finance, national income analysis.

Not open to freshmen.

255. Principles of Economics (continued).

Every quarter. (4 q. hrs.)

Business cycles, money and prices, banking and monetary policy, fiscal policy, supply and demand analysis.

Prerequisite: Economics 254.

256. Principles of Economics (continued).

Every quarter. (4 q. hrs.)

Theory of production and factorial distribution, international economics, problems of economic growth and price stability.

Prerequisite: Economics 255.

320. International Economics. Winter and Summer. (4 q. hrs.)

Principles of foreign trade and lending, the nature of international payments, tariffs and quotas, commercial policies currently being followed by the major countries participating in the world economy.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

356. Government and Business. Fall. (4 q. hrs.)

The market structures in which business operates; public policies for regulation and control of those markets.

Junior standing required.

357. Labor Economics. Fall and Spring. (4 q. hrs.)

An intensive study of labor as a factor in the economic system; history of the labor movement; technique and objective of labor organization; fundamental issues in labor-management disputes; labor legislation.

Prerequisite: Economics 254, 255, 256.

358. American Economic Development. Fall. (4 q. hrs.)

A study of the economic development of the United States, with special emphasis upon our basic economic organizations, such as the business enterprise, the labor union, and the economic functions of government.

Prerequisite: Economics 254, 255, 256.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Comparative Economic Systems.** Winter. (4 q. hrs.)

A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

454. History of Economic Thought. Winter. (4 q. hrs.)

The ancient world; scholasticism; mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes.

Prerequisite: Economics 254, 255, 256.

460. Intermediate Economic Analysis. Fall. (4 q. hrs.)

A study of commodity and factor price theory.

Prerequisite: Economics 254, 255, 256.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

462. Economic Stability and Growth. Winter. (4 q. hrs.)

An analysis of factors affecting the level of national economic activity, its fluctuation, and rate of increase.

Prerequisite: Economics 254, 255, 256.

465. Economics of Underdeveloped Areas. Spring. (4 q. hrs.)

An intensive study of the economic structures of the underdeveloped areas of the world. An analysis of the causes of their continuing low levels of output will be followed by an examination of the policy alternatives open to them for the development of their economies.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

470. Business Cycles. Spring. (4 q. hrs.)

An analysis of fluctuations in economic activity, including characteristics of cycles, their explanation in terms of income and employment theory, development of leading business cycle theories, and efforts to forecast and control business cycles.

Prerequisite: Economics 254, 255, 256.

480. Money and Banking. Winter and Summer. (4 q. hrs.)

An intensive study of money and banking and their importance in our economy; government monetary and banking policy and its significance to economic well-being.

Prerequisite: Economics 254, 255, 256.

485. Public Finance. Fall and Spring. (4 q. hrs.)

A study of taxation, government spending, public debt and their importance to economic welfare.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. The Soviet Economy. Spring and Summer. (4 q. hrs.)

Emphasis will be given to the current and historical economic factors which have given rise to the phenomenal development of the Soviet economy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

ENGLISH

Professors: Blair, E. L. Brooks, Ekeberg, E. C. Kelly, Kline, Palmer, Rommel, Seiler, Waffle, Wharton

Associate Professors: V. Johnson, Kelleher, Mather, Steinmetz, Switzer, Tyser, Walker, R. F. White (Head), Wittrock

Assistant Professors: Colby, Dolton, Eapen, McColl, Silverstein, Spencley, Thornburgh, Wild, W. Wilson

Instructors: Dvorak, Henry, J. C. Hoffman, Hunt, Kuo, Leathers, W. D. Miller, McBrearty, R. G. Richardson, K. W. Robertson, Stupple, Szar, Woodruff, Zuger

Note: A student who enters the University with a deficiency in the basic skills in English—reading, writing, spelling, elements of grammar and good usage—may be required to take work in remedial English in addition to the required freshman composition courses.

Demonstration of English Proficiency. A demonstration of English proficiency is prerequisite to graduation. This demonstration, formerly expected at an examination taken in the junior year, has since September 1, 1966, been required in the first composition course, English 120, for which C is now the lowest passing grade. The requirement may now be considered satisfied by any of the following means:

1. A grade of A, B, or C in English 120 taken at Eastern Illinois University.
2. A grade of A, B, or C in English 220 taken at Eastern Illinois University.
3. A grade of C or higher in the English proficiency examination given near the end of each quarter. To take this examination the student must register with the English Department at least two weeks prior to the end of the quarter.
4. A passing grade in the now-discontinued Junior English Examination.
5. A passing grade in the English proficiency test for admission to candidacy for teacher education prior to September 1, 1966.
6. For transfer students, any of the above or a B average in two composition courses at another college or university.

It should be noted that each student has a limited period of time in which to satisfy this requirement, the limit varying according to the student's classification at admission. See the Academic Regulation on Exclusion from the University.

UNDERGRADUATE COURSES

120. Composition. Every quarter. (4 q. hrs.)

A basic course in communication, including listening, reading, speaking, and writing. Many short themes required to develop facility in writing correct, effective sentences and paragraphs. Some study of rhetorical and grammatical principles.

121. Composition. Every quarter. (4 q. hrs.)

Further study of rhetoric and grammar. Longer units of composition in which problems of organizations, coherence, and unity are studied. One research paper required in addition to shorter themes.

Prerequisite: English 120.

126. Grammar. Fall, Winter and Spring. (4 q. hrs.)

A study of the English sentence, with some attention to the parts of speech. This is primarily a course for those preparing to teach in the upper grades or in junior or senior high school English, but is open to any student.

220. Composition. Every quarter. (4 q. hrs.)

Additional practice in composition, intended to strengthen the student's competence in clear and forceful writing.

Prerequisite: English 120, 121, and sophomore standing.

226. The Structure of the English Language: Phonology and Orthography. Fall, Winter and Spring. (4 q. hrs.)

Phonetics, phonemics, supra segmentals of stress and pitch; dialectology, including culturally deprived, British and American "correctness," and pronouncing dictionaries. History of Roman alphabet, of continental and English orthography; graphemics. Applied linguistic theories of reading.

227. The Structure of the English Language: Morphology and Syntax. Winter. (4 q. hrs.)

A study of morphemics, morphology, basic structures of syntax. Traditional vocabulary (conjugation, etc.). Sound and form change by contact (sandhi, assimilation, etc.). Vocabulary formation (borrowing, derivation, etc.). "Correctness" in agreement, etc.; dialectology and "grammars" of English.

Prerequisite: English 226.

228. The Structure of English: History of the Sound System, the Word System, the Syntactical Systems. Spring. (4 q. hrs.)

English sounds and dialects, words, sentences, vocabulary formation in 800, 1400, 1600, and 1960 A.D. General linguistic change and major events: coming of Indo-Europeans, American settlement, etc. American and world dialects. History of dictionary making; dictionaries today.

Prerequisite: English 227.

245. A Survey of English Literature I. Fall and Winter.
(4 q. hrs.)

English prose and poetry (including drama) from *Beowulf* to Bunyan. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

246. A Survey of English Literature II. Fall, Winter, and Spring. (4 q. hrs.)

English prose and poetry (including drama) from Dryden to DeQuincey. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

247. A Survey of English Literature III. Winter and Spring.
(4 q. hrs.)

English prose and poetry (including drama) from Macaulay to Dylan Thomas. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers.

250. American Literature I. Fall, Winter, and Spring.
(4 q. hrs.)

A survey of American Literature from Colonial times through the Transcendental Movement, stressing trends and major writers. Special emphasis is given to works of Edward Taylor, Nathaniel Hawthorne, Edgar Allan Poe, Ralph Waldo Emerson, and Henry David Thoreau.

251. American Literature II. Fall, Winter, and Spring.
(4 q. hrs.)

A survey of American literature from the close of the Transcendental Movement to 1900, stressing trends and major writers. Special emphasis is given to works of Herman Melville, Walt Whitman, Emily Dickinson, Mark Twain, and Henry James.

252. American Literature III. Fall, Winter, and Spring.
(4 q. hrs.)

A survey of American literature from 1900 to the present, stressing trends and major writers. Special emphasis is given to works of E. A. Robinson, Robert Frost, T. S. Eliot, William Faulkner, and Ernest Hemingway.

260. English Novel to 1850. Fall. (4 q. hrs.)

English 260 treats of fiction of the first half of the nineteenth century with emphasis upon the novels of Austen, Thackeray, Dickens, Trollope, Scott, the Brontes. Standards of good fiction, past and present, are discussed.

261. English Novel From 1850 to 1900. Winter. (4 q. hrs.)

English 261, a continuation of English 260, is concerned with the fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, Stevenson, Willkie Collins.

262. The American Novel to 1900. Fall. (4 q. hrs.)

A study of the best American novels before the twentieth century, with emphasis on the works of Hawthorne, Melville, Twain, and James.

263. The Twentieth Century Novel: English and American. Spring. (4 q. hrs.)

An analysis of selected novels by major figures in English and American fiction such as Joyce, Dreiser, Fitzgerald, Hemingway, Steinbeck, Lawrence. Emphasis is on types and trends in the modern novel.

270. Modern Drama. Spring. (4 q. hrs.)

The purpose of this course is to familiarize the student with what is best in modern drama.

275. Literature of the Old Testament. Winter. (4 q. hrs.)

An objective study of types of literature of the Old Testament—simple narratives, biography, history, law, short story, drama, prophecy, poetry, and wisdom literature. Some attention is paid to historical backgrounds.

310. Studies in Major American Poets. Spring. (4 q. hrs.)

A study in depth of various major American poets, such as Taylor, Whitman, Dickinson, Robinson, Frost. Only one or two poets will be studied during any given quarter, and the poet or poets studied may vary from quarter to quarter.

322. Literature in the Grades. Fall, Winter and Spring. (4 q. hrs.)

Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suitable for children.

Enrollment restricted to students in the elementary curriculum.

325. Greek Drama. (Omitted 1967-68.) (4 q. hrs.)

Origin and development of classical drama. Aeschylus, Sophocles, Euripides, with a study of Greek life and thought, and their contribution to our culture.

326. Shakespeare's Earlier Plays. Fall and Winter. (4 q. hrs.)

A study of Shakespeare from his earliest plays to 1600, including *Richard III*, *Richard II*, *Romeo and Juliet*, *Midsummer Night's Dream*, *Merchant of Venice*, *Much Ado About Nothing*, *Henry IV*, *As You Like It*, and *Julius Caesar*.

327. Shakespeare's Later Plays. Winter and Spring. (4 q. hrs.)

A study of Shakespeare from 1600 to his last plays, including *Twelfth Night*, *Hamlet*, *Troilus and Cressida*, *Othello*, *Measure for Measure*, *King Lear*, *Macbeth*, *Antony and Cleopatra*, *Coriolanus*, and *The Tempest*.

333. Colonial American Literature. Spring. (4 q. hrs.)

A study of American literature from its beginnings through the Revolutionary period. Essays, biographies, poetry, and fiction will be studied both for their intrinsic value and for their importance as a background for subsequent literary expression in America.

340. Methods of Teaching English in the High School.

Fall, Winter and Spring. (4 q. hrs.)

Important topics connected with English in the high school are covered as fully as time permits.

Prerequisite: Admission to teacher education.

355. Advanced Rhetoric. Winter. (4 q. hrs.)

Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 120 and 121.

Prerequisite: Twelve quarter hours of English.

356. Creative Writing. Spring. (4 q. hrs.)

Practice in finding, organizing and presenting materials for poetry, the familiar essay, the biographical sketch, and the short story. Emphasis is placed on materials drawn from the writer's experience and environment.

360. Studies in Major American Novelists. Winter. (4 q. hrs.)

A study in depth of various major American novelists, such as Hawthorne, Melville, Twain, James, Faulkner, Hemingway. Only one or two novelists will be studied during any given quarter, and the novelist or novelists studied may vary from quarter to quarter.

361. World Literature: Ancient and Medieval. Fall.

(4 q. hrs.)

Reading in translation of representative masterpieces of the ancient world and of the middle ages.

English 361 is not a prerequisite for English 362 or 363, but it is recommended that the courses be taken in sequence.

362. World Literature: Renaissance to 1850. Winter.
(4 q. hrs.)

Emphasis on generally recognized masters, Rabelais, Montaigne, Shakespeare, Goethe, Moliere, Racine, Cervantes, and others.

363. World Literature: Since 1850. Spring. (4 q. hrs.)

Readings in the masterpieces of realism, naturalism, symbolism; Balzac, Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others.

364. Introduction to the General Nature of Language and of English. Fall. (4 q. hrs.)

An over-view of theories of the nature of language; of the language and writing systems of the world and their growing conflicts; modern American English and its cultural setting. Concentration topics, e.g., psycho-linguistics, chosen by instructor.

370. Twentieth Century British Literature. Fall. (4 q. hrs.)

Representative writings in twentieth century British literature (exclusive of the novel) with special attention to Conrad, Yeats, Joyce, and Eliot.

379. Nineteenth Century American Poetry. Fall. (4 q. hrs.)

A study of major trends and significant figures in nineteenth century American poetry. Various genres, such as the lyric and the epic, are considered, and attention is given to the relationship between poetic theory and practice.

380. Theory and Practice of Modern Drama I. (Omitted 1967-68.) (4 q. hrs.)

The best of Ibsen, Shaw, Chekhov, and Strindberg. A course taught cooperatively by the Department of English and the Department of Theatre Arts. The aim of the course is to give the student experience in intellectual analysis and interpretation of significant dramatic works, and also experience in acting and directing. Acting is optional.

381. Theory and Practice of Modern Drama II. (Omitted 1967-68.) (4 q. hrs.)

The best of O'Neill, Tennessee Williams, Arthur Miller, and Thornton Wilder.

382. Theory and Practice of Modern Drama III. (Omitted 1967-68.) (4 q. hrs.)

The best of the "Absurdist"—Beckett, Ionesco, Albee, Pinter, Genet.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Sixteenth and Seventeenth Century Prose.

Fall. (4 q. hrs.)

Development of prose from the earliest experiments to later times, including such authors as Lyly, Sidney, Bacon, Bunyan, and Milton together with the times that influenced and made it.

454. The Transcendental Movement. Winter (4 q. hrs.)

A study of the New England Transcendental movement. Major emphasis is placed on the writings of Ralph Waldo Emerson and Henry David Thoreau, although some attention is given to other writers who figured in the movement.

455. Eighteenth Century Prose Writers. (Omitted 1967-68.)
(4 q. hrs.)

A study concerned with the prose writers of Queen Anne and the Hanoverians. Emphasis upon periodical literature and its influences on the education of the lower classes.

456. Eighteenth Century Prose Writers. Fall. (4 q. hrs.)

Henry Fielding, Richardson, Goldsmith, Smollett, Sterne, Walpole, Johnson.

457. Nineteenth Century English Prose. (Omitted 1967-68.)
(4 q. hrs.)

Major nineteenth century English prose writing (exclusive of fiction) of Carlyle, Macaulay, Newman, Lamb, Hazlitt, Mill, Froude, Thackeray, Ruskin, Arnold, Huxley, Coleridge, Wordsworth, Morris, Pater, Stevenson.

459. Methods of Teaching Children's Literature.

(Omitted 1967-68.) (4 q. hrs.)

A course for elementary and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six.

465. Middle English Literature. Fall. (4 q. hrs.)

A study of the non-Chaucerian literature of the Middle Ages, including a brief initial survey of Old English literature; stress on major types: religious prose and poetry, social commentary, lyric poetry, the romance, drama.

470. English Poetry. (Omitted 1967-68.) (4 q. hrs.)

English poetry from 1550 to 1798, exclusive of Milton and the precursors of romanticism.

471. Poetry of the Romantic Period. Winter. (4 q. hrs.)

Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats.

472. Poetry of the Victorian Period. Spring. (4 q. hrs.)

Tennyson and Browning, etc.

475. Milton. Spring. (4 q. hrs.)

A study of the life, prose, and poetry of John Milton, and his relationship to the literary trends of his century.

480. Chaucer. Winter. (4 q. hrs.)

Canterbury Tales; the London dialect out of which modern English grew; the life of the times.

481. Chaucer. Spring. (4 q. hrs.)

A study of *Troilus* and *Criseyde* and such other works as *The House of Fame*, *The Parliament of Fowls* and *The Legend of Good Women*; a study of the London dialect out of which modern English grew; and ideas of the time such as courtly love, predestination and free will.

490. Elizabethan Drama. (Omitted 1967-68.) (4 q. hrs.)

A survey of the development of the English drama of the Renaissance, based on the works of the major playwrights of the period, including selected plays of Shakespeare.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Literary Criticism. (Omitted 1967-68.) (4 q. hrs.)

An extensive study of the basic principles of evaluating the standard literary forms—epic, dramatic, lyrical, and prose narrative.

510. Studies in Medieval Literature. (Omitted 1967-68.)
(4 q. hrs.)

A study in depth of representative non-Chaucerian literature of the English Middle Ages. The course may concern itself with genres—the drama, the romance, the ballad—or with figures: the Gawain poet, William Langland, John Gower, John Lydgate, Robert Henryson.

520. Studies in Renaissance Poetry. (Omitted 1967-68.)
(4 q. hrs.)

A study of a single major poet—such as Spenser or Sidney—or a group of poets, in relation to the dominant ideals and attitudes of the Renaissance.

525. Studies in Jacobean and Caroline Drama. (Omitted 1967-68.) (4 q. hrs.)

Focus upon the works of major British dramatists (excluding Shakespeare) from 1603 to the closing of the theaters in 1642.

526. Studies in Restoration and Eighteenth Century Drama.
Spring. (4 q. hrs.)

Focus upon the works of major British dramatists from Dryden to Sheridan.

535. English Fiction, from Jane Austen to Thomas Hardy.
Fall. (4 q. hrs.)

This course surveys the historical development of the novel in England from Jane Austen to Thomas Hardy, but the emphasis will be on one or two different novelists each quarter.

540. Studies in American Poetry. Winter. (4 q. hrs.)

A course devoted to the study of some movement or genre in American poetry; for example, nineteenth century poetic theory and practice, trends in American poetry from the Puritans to the present, lyric poetry in the American tradition, or narrative poetry in America.

541. Studies in American Prose. (Omitted 1967-68.) (4 q. hrs.)

A course devoted to the study of some movement in American prose, such as the romance and the novel in nineteenth century fiction; the short story; the rise of realism; the nineteenth century novel; theory and practice; the novel; biography, autobiography, and the essay; the local color movement. Only one movement to be treated in any given term, and the movement and authors studied may change from term to term.

545. Descriptive Linguistics. (Omitted 1967-68.) (4 q. hrs.)

A survey of the activity of descriptive linguistics from the 1930's and the war years to the present, with some training in the various

disciplines arising therefrom; e.g., structural, transformational, and other grammars; techniques in teaching English as a foreign language; techniques in related fields.

Prerequisite: Permission of the instructor.

550. Comparative Literature. (Omitted 1967-68.) (4 q. hrs.)

Literature, chiefly of the Western World 1650 to 1900. It has a double aim: first it proposes to offer for the enjoyment and appreciation of the student some of the best literature of the period; second, it will call to the student's attention the ideas and movements of the time.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Biography. Winter. (4 q. hrs.)

A survey of biography designed to whet the reader's interest in the major periods of culture, English and American.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Old English. Fall. (4 q. hrs.)

Old English grammar and selected readings from the literature.

Prerequisite: Consent of the instructor.

561. Beowulf. Winter. (4 q. hrs.)

A study of the Old English classic in the original language with emphasis on such aspects as the social, legendary, and historical backgrounds of the poem; its structure and texture; and the various critical problems involved in its study.

Prerequisite: English 560 or the consent of the instructor.

565. Studies in Chaucer. (Omitted 1967-68.) (4 q. hrs.)

Focus upon selected works of Chaucer and, possibly, of his contemporaries.

Prerequisite: English 480 or 481 or the equivalent.

575. Studies in Shakespeare. Winter. (4 q. hrs.)

The content of the course will vary from year to year in order to provide opportunity for investigation of intellectual patterns and socio-political aspects of the works in addition to their distinctively literary values.

Prerequisite: English 326 or 327 or their equivalent, or by permission of the instructor.

577. Studies in Seventeenth Century Prose and Poetry.

(Omitted 1967-68.) (4 q. hrs.)

Studies in single or related authors from John Donne to John Dryden, excluding Milton and the drama.

579. Studies in Eighteenth Century Prose and Poetry.

(Omitted 1967-68.) (4 q. hrs.)

Focus upon Pope and the Neo-classical ideal; the Johnson circle; the Scottish nature poets.

582. Studies in Romantic Poetry. Fall. (4 q. hrs.)

A study of one poet (Burns, Wordsworth, Coleridge, Byron, Shelley, or Keats). The writings and life of the poet will be studied against the background of Romanticism.

585. Studies in Later Nineteenth Century Prose and Poetry.

Spring. (4 q. hrs.)

A detailed study of some of the basic and most typical thematic preoccupation of the nineteenth century as revealed in its literature. Although primary emphasis will be on English literature, some study of relevant American and European literature will be included. Since emphasis is upon themes rather than literary genres, the course will include studies of particular poems, novels, and non-fictional prose.

590. Colonial American Literature. Spring. (4 q. hrs.)

A course devoted to pre-revolutionary American literature, with special attention to the writings of the seventeenth century New England Puritans.

592. Studies in Twentieth Century Fiction. (Omitted 1967-68.) (4 q. hrs.)

An intensive study of the major figures of the period in England and America: Conrad, Lawrence, and Joyce; Hemingway and Faulkner. Focus will be on one or two writers, varying from quarter to quarter.

594. Studies in Twentieth Century Poetry. Spring. (4 q. hrs.)

Focus on key figures, e.g., T. S. Eliot, William Butler Yeats, E. A. Robinson, Robert Frost, together with individual critical analyses of minor poets.

595. Thesis. (4 q. hrs.)**FOREIGN LANGUAGES**

Professors: Michael, Miess (Head)

Associate Professors: Cobb, L. L. Kelly, P. E. Kirby, Morfit, Ortiz-Muniz, Ovcharenko

Assistant Professors: Ceide-Echevarria, Crouse, Van Deventer

Instructors: McKee, D. G. Miller, Seidenberg, Weier

Intermediate and upper division modern language courses are conducted in the language.

Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I	II	III
Number of high school units in the language	Course in (or beyond) which the student may enroll for college credit.	Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
1 year	The student will take a placement examination given by the Foreign Language Department which will determine the course which he may enter for credit.	
2 years	Latin 122 French 132 German 132 Russian 142 Spanish 132	Latin 220 French 230 German 233 Russian 250 Spanish 230
3 years	Latin 220 French 230 German 233 Russian 250 Spanish 230	Latin 221 French 231 German 234 Russian 251 Spanish 231
4 years	Latin 222 French 232 German 235 Russian 252 Spanish 232	a course numbered above 300

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

The following courses are approved to apply toward the literature portion of the humanities requirement:

French 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512

German 353, 355, 362, 363, 411, 412, 453, 454, 511, 512

Russian 360, 361, 363

Spanish 321, 322, 323, 332, 411, 456, 457, 458, 510, 511, 512

FRENCH

UNDERGRADUATE COURSES

130, 131, 132. Elementary French. Fall, Winter and Spring.
(4 q. hrs. for each course.)

Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.

No credit for graduation for less than a year's work.

230, 231, 232. Second Year French. Fall, Winter and Spring.
(4 q. hrs. for each course.)

Review of grammar; exercises in composition; conversation; readings.

Prerequisite: Two years of high-school French or one year of college French.

330. Applied Linguistics. Fall. (4 q. hrs.)

Application of principles of linguistic analysis to modern French. Systematic drills are used to build the student's knowledge of the structure of French and to eliminate errors caused by the patterns of the student's native English.

Prerequisite: Two years of college French or permission of the department.

331. French Grammar and Composition. Winter. (4 q. hrs.)

Review and consolidation of principles of grammar; their application in writing, language drills, translations, compositions.

Prerequisite: Two years of college French or permission of the department.

332. Aspects of French Civilization. Spring. (4 q. hrs.)

A study of some of the outstanding moments and figures in the history of French culture and civilization.

Prerequisite: Two years of college French or permission of the department.

340. Methods of Teaching French. Fall and Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

350. Survey of French Literature from the Middle Ages to the 17th Century. Fall. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

- 351. Survey of French Literature of the 17th Century.** Winter. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

- 352. Survey of French Literature of the 18th and 19th Centuries.** Spring. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

- 410. Introduction to the French Novel I.** Fall. (4 q. hrs.)

A study of selected novels of Mme. de LaFayette, Prévost, Constant, George Sand.

Prerequisite: French 350, 351, 352 or permission of the department.

- 411. Introduction to the French Novel II.** Winter (4 q. hrs.)

A study of selected novels of Victor Hugo, Balzac, Stendhal, Flaubert.

Prerequisite: French 350, 351, 352 or permission of the department.

- 412. Introduction to the French Novel III.** Spring. (4 q. hrs.)

A study of selected novels of Zola, Proust, Gide, Camus.

Prerequisite: French 350, 351, 352 or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 456. French Drama of the 17th Century.** (Omitted 1967-68.) (4 q. hrs.)

- 457. French Drama of the 18th and 19th Centuries.** (Omitted 1967-68.) (4 q. hrs.)

- 458. French Poetry.** (Omitted 1967-68.) (4 q. hrs.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. French Novel I: Before Balzac. (Omitted 1967-68.)
(4 q. hrs.)

A study of selected novels of Mme. de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

511 (454). French Novel II: Balzac to Proust. (Omitted 1967-68.) (4 q. hrs.)

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

512. French Novel III: Proust to the Present.
(Omitted 1967-68.) (4 q. hrs.)

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

595. Thesis. (4 q. hrs.)

GERMAN

UNDERGRADUATE COURSES

130, 131, 132. Elementary German. Fall, Winter and Spring. (4 q. hrs. for each course.)

Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

No credit for graduation for less than a year's work.

233, 234, 235. Second Year German. Fall, Winter and Spring. (4 q. hrs. for each course.)

Rapid review of grammar; practice and vocabulary-building exercises in conversation, and regular exercises in composition; intensive reading of selected short stories and novels.

Prerequisite: German 132 or two years of high school German.

250. Scientific German. Spring. (4 q. hrs.)

Extensive readings in and development of the terminology of the Physical Sciences, the Biological Sciences and the Social Sciences.

Prerequisite: German 234 or four years of high school German.

340. Methods of Teaching German. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

353. Masterpieces of German Literature. Spring. (4 q. hrs.)

Introduction to German literature, its themes, forms, and ideals.

Prerequisite: German 235 or permission of the department.

354. Conversation and Writing. Fall. (4 q. hrs.)

Training in writing German, diction and pronunciation.

Prerequisite: German 235 or permission of the department.

355. Twentieth Century German Literature. (Omitted 1967-68.) (4 q. hrs.)

Introduction to trends of modern civilization as reflected in contemporary German literature: Hofmannsthal, Rilke, Trakl, Hauptmann.

Prerequisite: German 235 or permission of the department.

361. Applied Linguistics. Winter. (4 q. hrs.)

Application of the findings of descriptive linguistics to the study and the teaching of German; the results of linguistic analysis and their practical significance both to the student of that language and to the teacher.

Prerequisite: German 235 or permission of the department.

362. Schiller's Dramas. (Omitted 1967-68.) (4 q. hrs.)

A study of the development of German classicism as embodied in Schiller's dramas; the theory, structure and dramaturgy of the classical drama in Germany.

Prerequisite: German 235 or permission of the department.

363. Lyrics and Ballads. (Omitted 1967-68.) (4 q. hrs.)

A poetical and metrical survey of German lyrical verse from its beginning to modern times, with critical analysis of representative poems.

Prerequisite: German 235 or permission of the department.

410. Contemporary German Culture and Civilization.
(Omitted 1967-68.) (4 q. hrs.)

A systematic study of present day Germany, Austria, and Switzerland.

Prerequisite: Three years of college German or permission of the department.

411. German Drama. (Omitted 1967-68.) (4 q. hrs.)

A study of the outstanding German dramas until 1800.

Prerequisite: Three years of college German or permission of the department.

412. Introduction to Goethe. (Omitted 1967-68.) (4 q. hrs.)

A study of Goethe from his earliest literary pursuit to 1806.

Prerequisite: Three years of college German or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. German Literature to 1700.** Fall. (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

454. German Literature Since 1700. Winter. (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

455. Advanced Conversation, Composition and Syntax.

Spring. (4 q. hrs.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of German literature.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. History of German Civilization. (Omitted 1967-68.)

(4 q. hrs.)

Analysis of selected topics from German culture and civilization.

511. Modern German Drama. (Omitted 1967-68.) (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512. Goethe. Summer, 1967. (4 q. hrs.)**595. Thesis.** (4 q. hrs.)**LATIN****UNDERGRADUATE COURSES****120, 121, 122. Elementary Latin.** Fall, Winter, Spring.

(4 q. hrs. for each course.)

The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.

No credit for graduation for less than a year's work.

- 220. Introductory Latin Reading.** Fall. (4 q. hrs.)
Selection from Aulus Gellius, Phaedrus, and Caesar.
Prerequisite: Latin 122, or two years of Latin in high school.
- 221. Vergil's Aeneid.** Winter. (4 q. hrs.)
Selections from Book I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil.
Prerequisite: Latin 220 or permission of the department.
- 222. Orations of Cicero.** Spring. (4 q. hrs.)
Readings from the four orations against Catiline. Cicero's career and the political background of the conspiracy of Catiline are discussed.
Prerequisite: Latin 221 or permission of the department.
- 320. A Survey of Classical Roman Literature, Part I.**
(Omitted 1967-68). (4 q. hrs.)
Chronological selections illustrative of Latin literature in the period of the Republic.
Prerequisite: Two years of college Latin or permission of the department.
- 321. A Survey of Classical Roman Literature, Part II.**
(Omitted 1967-68). (4 q. hrs.)
Chronological selections illustrative of Latin literature in the period of the Empire.
Prerequisite: Two years of college Latin or permission of the department.
- 322. (311). Selected Letters.** (Omitted 1967-68.) (4 q. hrs.)
Readings from the correspondence of Cicero and Pliny.
Prerequisite: Two years of college Latin or permission of the department.
- 330. Cicero Essays, Selections from De Amicitia and De Senectute.** Fall. (4 q. hrs.)
Prerequisite: Two years of college Latin or permission of the department.
- 331. Horace, Selections from the Odes, Satires, and Epistles.**
Winter. (4 q. hrs.)
Prerequisite: Two years of college Latin or permission of the department.
- 332. Livy, Selections from Books I, XXI, XXII.**
Spring. (4 q. hrs.)
Prerequisite: Two years of college Latin or permission of the department.

340. Methods of Teaching Latin. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

433. Ovid, Selections from Tristia, Heroides, Amores, Fasti, Metamorphoses. (Omitted 1967-68.) (4 q. hrs.)

The life and times of Ovid; Roman and Greek mythology.

Prerequisite: Three years of college Latin or permission of the department.

434. Latin Composition. (Omitted 1967-68.) (4 q. hrs.)

The purpose of this course is to give the prospective Latin teacher a facility in the use of the more elementary constructions. The exercises are based upon the authors usually read in high school.

Prerequisite: Three years of college Latin or permission of the department.

435. Medieval Latin. (Omitted 1967-68.) (4 q. hrs.)

Readings in the history, poetry and philosophy of the Middle Ages. Special attention is given to the comparative philology of Latin and the Romance languages.

Prerequisite: Three years of college Latin or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. Tacitus, Germania and Agricola; Selections from Annals and Histories.** Fall. (4 q. hrs.)**451. Selections from Catullus and Martial.**

Winter. (4 q. hrs.)

452. Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence.

Spring. (4 q. hrs.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Suetonius: The Life of Augustus Caesar.

(Omitted 1967-68.) (4 q. hrs.)

Translation of a primary historical document pertaining to the rise of the Roman Empire; critical evaluation of Suetonius as a biographer and historian.

511. Petronius, *Cena Trimalchionis* and Seneca, *Apocolocyntosis*. (Omitted 1967-68.) (4 q. hrs.)

Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.

512. Apuleius, *The Story of Cupid and Psyche*. (Omitted 1967-68.) (4 q. hrs.)

Translation of a major excerpt from Apuleius' *Metamorphosis*; introduction to the Eastern cults prevalent in Rome.

RUSSIAN

UNDERGRADUATE COURSES

140, 141, 142. Elementary Russian. Fall, Winter and Spring. (4 q. hrs. for each course.)

Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.

No credit for graduation for less than a year's work.

250, 251, 252. Second Year Russian. Fall, Winter and Spring. (4 q. hrs. for each course.)

Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose.

Prerequisite: Russian 142 or 2 years of high school Russian.

340. Methods of Teaching Russian. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

360. Modern Russian Authors. Fall. (4 q. hrs.)

Reading of short selections from a wide range of authors such as Pushkin, Tolstoy, Dostoyevsky, Turgenev, Saltykov-Shchedrin, Lermontov, Gogol, Chekhov, Gorky, Sholokhov, and Simonov.

Prerequisite: Two years of college Russian or permission of the department.

361. Masterpieces of Russian Literature. The Russian Novel in the 19th Century. Winter. (4 q. hrs.)

Reading of selected chapters from *War and Peace*, *Anna Karenina*, *Brothers Karamazov*, *Crime and Punishment*, *Dead Souls*, and *Fathers and Sons*.

Prerequisite: Two years of college Russian or permission of the department.

362. Russian Readings in the Sciences and Social Sciences.
(Omitted 1967-68.) (4 q. hrs.)

Readings in history, politics, current events, business, industry, steel-making, physics, chemistry, geography, and psychology.

Prerequisite: Two years of college Russian or permission of the department.

363. Chekhov and Other Russian Dramatists. Spring.
(4 q. hrs.)

The Three Sisters and *The Cherry Orchard* by Chekhov. *The Lower Depths* by Gorky, and one play of the Soviet period will be read in their entirety.

Prerequisite: Two years of college Russian or permission of the department.

SPANISH

UNDERGRADUATE COURSES

130, 131, 132. Elementary Spanish. Fall, Winter and Spring.
(4 q. hrs. for each course.)

The aim in elementary Spanish is to give the student a working knowledge of the language. To that end stress is laid upon pronunciation, conversation, and the use of tapes and films.

No credit for graduation for less than a year's work.

230, 231, 232. Second Year Spanish. Fall, Winter and Spring.
(4 q. hrs. for each course.)

The first month of Spanish 230 is devoted to a review of the elements of the language. Several comedies and stories are read. Conversation in Spanish; films used to acquaint students with the history and culture of Spanish speaking countries.

Prerequisite: Two years of Spanish in high school or one year in college.

321. Introduction to Spanish Literature, 12th to 15th Centuries. Fall. (4 q. hrs.)

Study of development of medieval Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

322. Introduction to Spanish Literature, 16th to 17th Centuries. Winter. (4 q. hrs.)

Study of development of Renaissance and Golden Age Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

323. Introduction to Spanish Literature, 18th to 20th Centuries. Spring. (4 q. hrs.)

Prerequisite: Two years of college Spanish or permission of the department.

330. Introduction to Spanish American Civilization. Winter. (4 q. hrs.)

A study of contemporary civilization in Spanish America against a view of the history of the area from the period of the discovery.

Prerequisite: Two years of college Spanish or permission of the department.

331. Spanish Composition and Conversation. Fall. (4 q. hrs.)

Intermediate level course continuing the skills of speaking and writing developed in the second year. Guided conversation, grammar review, oral and written composition.

Prerequisite: Two years of college Spanish or permission of the department.

332. Introduction to Spanish American Literature. Spring. (4 q. hrs.)

A study of selected writings and literary history from the Colonial Period to the present.

Prerequisite: Two years of college Spanish or permission of the department.

340. Methods of Teaching Spanish. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

410. Advanced Composition and Phonetics. (Omitted 1967-68.) (4 q. hrs.)

A study of fundamental aspects of spoken and written Spanish. Frequent oral and written reports required.

Prerequisite: Three years of college Spanish or permission of the department.

411 (310). Modern Short Stories of Spain. (Omitted 1967-68.) (4 q. hrs.)

Reading of Spanish short stories from latter part of the 19th century to present. Analysis and oral discussions in Spanish.

Prerequisite: Three years of college Spanish or permission of the department.

412 (461). Survey of Spanish Culture and Civilization.
(Omitted 1967-68.) (4 q. hrs.)

A study of contemporary civilization in Spain against a view of the history of the Peninsula from ancient times.

Prerequisite: Three years of college Spanish or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456. The Short Story in Spanish America. Fall. (4 q. hrs.)

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457. Modern Poetry of Spanish America. Winter. (4 q. hrs.)

A study of the poetry of Spanish America, from the *modernista* movement to the present.

458. Modern Novel of Spanish America. Spring. (4 q. hrs.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Poetry of Spain. (Omitted 1967-68.) (4 q. hrs.)

Readings and analysis of Spanish poetry from 15th century to present.

511. Selected Modern Drama of Spain. (Omitted 1967-68.)
(4 q. hrs.)

Reading of complete modern dramas of Spain from second half of the 19th century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

512. Modern Novels of Spain. Summer 1967. (4 q. hrs.)

Reading of complete novels of Spain from latter part of the 19th century to present.

595. Thesis. (4 q. hrs.)

CLASSICS

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Greek Literature in English Translation. Summer.
1967. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Greek literature from Homer to Demosthenes.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Latin Literature in English Translation. Summer 1968.
(4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Latin literature from Plautus to Suetonius.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

FRENCH

(See Foreign Languages)

GEOGRAPHY

Professors: Price (Head), M. J. Read

Associate Professors: Amos, McDonald, E. L. Martin

Assistant Professors: Ford, Mausel

Instructor: Barry

UNDERGRADUATE COURSES

Classes in the following courses have two lecture periods and two laboratory periods a week: 141, 142, 242, 380, 381.

141. Physical Geography. Fall and Winter. (4 q. hrs.)

Study of weather and climate, the factors which influence them, and their importance to man; recent developments in knowledge of weather presented.

No prerequisite.

142. Physical Geography. Spring. (4 q. hrs.)

A study of the earth's surface, the areal interrelationships of its landforms, water resources, soils, natural vegetation, and economic minerals; world patterns of distribution of physical elements of geography and their relationships to man. Field trip.

No prerequisite.

150. World Geography. Every quarter. (4 q. hrs.)

A survey in which significant areal differences in population from the core of the course. Man's areal setting and the working bonds he has developed with the land and its resources. Regional and topical approaches utilized. A study of the earth as the home of man.

151. Regional Geography of North America. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to the regional approach in geography, with North America, and especially the United States, the example.

Prerequisite: Geography 150 or 141 or 142. No credit if Geography 302 has been taken.

241. Climates of the World. Fall. (4 q. hrs.)

Comparison of methods used in classifying climatic types. Consideration of genetically derived climatic types, to vegetation, soil and land-use associations. Applications of climatology to industry, agriculture, and aviation.

Prerequisite: Geography 141 or permission of instructor.

242. Regional Geomorphology. (Omitted 1967-68.) (4 q. hrs.)

A study of the landforms of the United States; work with maps of landforms with consideration of their composition and the processes by which they were formed.

Prerequisite: Geography 142 or permission of instructor.

300. Elementary Earth Science I. Fall and Spring. (4 q. hrs.)

Physical elements of geography as an earth science; phenomena of earth shape and motions, daylight, time, and seasons analyzed as they affect the earth as man's home. Common Illinois rocks and minerals, land forms, and earth features introduced. Local field trip.

Open on an elective basis to all students.

301. Elementary Earth Science II. Winter. (4 q. hrs.)

Regional geography of the world is analyzed as based on physical factors. Emphasis is placed on weather and climate and the working bonds man has developed with various environments through the world.

Open on an elective basis to all students.

302. North America. Winter and Spring. (4 q. hrs.)

Man's occupancy of the continent of North America with special emphasis on the United States. The regional approach used with some time spent on the wise utilization of resources.

Prerequisite: One course in geography. Open on an elective basis to all students. No credit if Geography 151 has been taken.

340. Methods and Materials. Fall. (4 q. hrs.)

The nature of the discipline and its place in the school curriculum. Tests, reference materials, visual and other aids, and classroom procedures considered. Some classroom experience in teaching techniques.

Prerequisite: Admission to teacher education.

351. Geography of the Caribbean Lands. Winter. (4 q. hrs.)

An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands. Recent political, economic and population changes in the area are emphasized.

360. Economic Geography. Every quarter. (4 q. hrs.)

An examination of world industries and the areal significance of economic activities. The geographic significance for each economic activity is considered as well as an evaluation of the varying importance of each to the world economy.

361. Advanced Economic Geography I. Winter. (4 q. hrs.)

Geography of transportation and domestic and foreign trade; special emphasis is on the physical pattern of transportation routes and the various functions of urban settlement and the importance of these to our economy.

362. Advanced Economic Geography II. Spring. (4 q. hrs.)

The essential agricultural and mineral resources of the world and their associated industries are studied. Special emphasis on the geographic aspects of recent economic developments which have national and international significance.

370. Geography of Illinois. Spring. (2 q. hrs.)

A study of Illinois climate, landforms, soil, water and mineral resources. Population distribution and economic activities. Geography of the State also interpreted in the light of its historical setting.

380. Cartography. Winter. (4 q. hrs.)

Instruction and practice in the fundamentals of map projection, map construction, and reproduction.

381. Field Techniques and Problems. (Omitted 1967-68.)
(4 q. hrs.)

Experience in defining and solving field problems through collecting, classifying, and analyzing data in the field. Plane tabling, making of simple field maps, use of aerial photographs and competence in field techniques stressed.

387. Conservation of Natural Resources. Spring. (4 q. hrs.)

Study of problems dealing with the wise use of soil, minerals, forests, animals, and waters with special reference to Illinois and the United States. Some field trips used as laboratory sessions.

446. Urban Geography. Winter. (4 q. hrs.)

A study of the urban areas of the world. Analysis is made of the origins, development, distribution, character, structure, and functions of urban centers and their peoples.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. North America. (Omitted 1967-68.) (4 q. hrs.)

An advanced study which emphasizes the United States' land-forms, resources, cities, rivers, transportation routes and economic areas which are covered in their regional settings.

451. Geography of South America. Winter. (4 q. hrs.)

Physical features, resources, peoples, land utilization, and economic development of the countries of South America.

452. Geography of Europe. Fall. (4 q. hrs.)

A study of the countries of Europe and the geographic basis for their stages of development and commercial and political relations; emphasis upon current problems.

453. Geography of Asia. Spring (4 q. hrs.)

Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.

455. Geography of the U.S.S.R. (Omitted 1967-68.) (4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in which the Russian people live and work. Analysis of the present economic development and of the industrial potential of the Soviet Republic.

456. The North American Midwest. (Omitted 1967-68.)
(4 q. hrs.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central United States. Emphasis is on the geography of Illinois.

457. Geography of the Pacific. Winter. (4 q. hrs.)

A regional study of the Pacific. The regions of study include Australia-New Zealand, Micronesia, Melanesia, Polynesia, Indonesia

and Philippines. Development and interpretation of physical, political, economic and social regions in the Pacific.

458. Geography of Africa. Spring. (4 q. hrs.)

A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.

470. Historical Geography of the United States. (4 q. hrs.)

A study of the elements of geography and the role they have played in the various stages in the settlement and subsequent development of the United States.

471. Political Geography. (4 q. hrs.)

A study of the great world powers in the light of their geographic conditions. Analysis is made of current "hot spots" and the fundamentals of national strength.

480. Advanced Cartography. (Omitted 1967-68.) (4 q. hrs.)

A study of the history, uses, and construction of maps, cartographic work and use of aerial photographs; individual projects and problems.

Prerequisite: Geography 380.

486. Geography of Soils. Fall. (4 q. hrs.)

Morphology of soils, soil forming factors, and soil classification and associations. World distribution of soil types, detailed study directed to the soils of selected areas of agricultural pedological importance. Field trip.

Prerequisite: Twelve quarter hours of geography or permission of instructor.

487. Regional Problems in Conservation. (Omitted 1967-68.) (4 q. hrs.)

The distribution, use, and interrelationship of the resources in the various resource management regions of the United States, the conservation techniques applied to them, and the problems of public policy in their effective management.

490. Special Problems. Every quarter. (1-4 q. hrs.)

Provides opportunity for the student to do independent study. Designed for the individual needs of the student at either the graduate or undergraduate level.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a student whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Philosophy and Literature of Geography. Spring.
(4 q. hrs.)

Acquaints graduate students in geography with the materials available for study and research in the field. Basic philosophies in geography analyzed.

550. Geography in World Affairs. Spring. (+ q. hrs.)

Working bonds between man and the environment; emphasis upon the natural resources, agricultural and industrial production and transportation in national affairs. Problems of international politics and their geographic foundations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. A Geography of Man. (Omitted 1966-67.) (4 q. hrs.)

Designed to give the student a better understanding of the role of geography in human affairs. Special attention given to the literature of the field and recent developments in geography.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Earth Interpretations. Winter. (4 q. hrs.)

Cultural course for the student with little or no previous work in physical geography. Physical resources are analyzed as they are inter-related to each other and to man.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556 (553). Bio-geography. (Omitted 1967-68.) (4 q. hrs.)

Physical factors which influence plants and animals: distribution, climatic conditions, glaciation, soils, physiognomy, including barriers, succession, climax, and competition.

590. Seminar in Educational Geography. (Offered on demand.)
(4 q. hrs.)

The place of geography among the disciplines in the curriculum at all levels of instruction from elementary school through junior college. A written report of significant research on some phase of educational geography required.

595. Thesis. (4 q. hrs.)

GEOLOGY

(Taught in the Department of Geography)

140. Physical Geology. Every quarter. (4 q. hrs.)

The geologic approach to a study of earth materials and processes; attention given to common rocks and minerals, vulcanism, erosional processes, tectonic forces, and map interpretation. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

243. Historical Geology. Winter. (4 q. hrs.)

A study of the physical history of the earth's crust and the record in rocks and the evolution of life forms as evidenced by fossils. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 140.

244. Mineralogy. Fall. (4 q. hrs.)

A study of minerals with emphasis on crystallography, genesis, association, and classification. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 140, Chemistry 122 or 152.

343. Structural Geology. Fall. (4 q. hrs.)

Forces involved in the deformation of rocks with emphasis on the recognition, interpretation, and illustration of the resultant geologic structures. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 140, 243.

345. Petrology. Spring. (4 q. hrs.)

Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 140.

445. Principles of Stratigraphy. Winter. (4 q. hrs.)

Development of the stratigraphic column; stratigraphic paleontology; sedimentary facies and basic stratigraphic relationships among rock bodies; principles of correlation; tectonic framework of sediments. Field trip. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 140 and 243.

447. Sedimentation. Spring. (4 q. hrs.)

Sources of sediments; agents of transportation; environments of deposition; post-depositional changes; properties of sedimentary rocks, classification; analytical laboratory techniques. (Two one-hour classes and two two-hour laboratory classes per week.)

Prerequisite: Geology 140.

HISTORY

Professors: Hamand, W. D. Miner, Seymour, Syndergaard (Head), D. F. Tingley

Associate Professors: Nichols, G. H. Jones, Curran, L. C. Wood

Assistant Professors: Buenker, Elbert, Emmons, Hennings, Horak, Keiser, Koch, Maurer, F. A. Miller, Sterling, N. A. Thorburn

Instructors: Hockman, Pierson

UNDERGRADUATE COURSES

- 233. History of the United States to 1840.** Every quarter.
(4 q. hrs.)

The colonial period; the independence movement; the framing and adoption of the Constitution; the growth of American nationality; Western development and Jacksonian democracy.

- 234. History of the United States, 1841 to 1898.**
Every quarter. (4 q. hrs.)

Manifest Destiny and the slavery controversy; the Civil War and Reconstruction; the new industrial society and the agrarian movement.

- 235. History of the United States Since 1898.**
Every quarter. (4 q. hrs.)

The War with Spain. The United States as a World Power; the growth of industry and the progressive movement; the First World War; postwar problems; depression and the New Deal; the Second World War; postwar problems, foreign and domestic.

- 244. Ancient History.** Fall, Winter and Spring. (4 q. hrs.)

The ancient Middle East; Ancient Greece; Hellenistic Age; Roman Republic; Roman Empire, its rise and decline. Covers the period of time from c. 3000 B.C. to 500 A.D.

- 245. Medieval Europe.** Fall, Winter, and Spring. (4 q. hrs.)

Germanic invasions; rise of The Papacy; rise of Frankish Empire; Carolingian empire; feudalism; Mohammedanism; beginnings of national states; Crusades; medieval culture—universities, literature, art; 100 Years' War; decline of Church.

- 246. European History, c. 1500-1715.** Fall, Winter and Spring.
(4 q. hrs.)

A study of the emergency of modern Europe, rise of national states, Renaissance, Reformation, Catholic Reformation, age of discovery and exploration, age of Philip II—1556-88, rise of absolutism in France—1598-1660, decline of monarchy in England—1603-69, Thirty Years' War—1618-1648. Age of Louis XIV.

247. European History, c. 1715-1870. Fall, Winter, and Spring.
(4 q. hrs.)

Rise of Russia and Prussia in the eighteenth century; colonial rivalry of France and England; the Enlightenment; French Revolution and Napoleon.

248. European History, 1870 to Present.

Fall, Winter and Spring. (4 q. hrs.)

Triumph of nationalism in Germany and Italy; Second Industrial Revolution; background of World War I; World War I; Fascism, Nazism, World War II; Cold War.

281. Latin-American History to 1830. Fall. (4 q. hrs.)

Exploration and settlement of the Spanish and Portuguese empires in the western world; colonial development; the era of revolution and independence; the relationships between the Latin-American colonies and nations with the English colonies and the United States.

Prerequisite: Sophomore standing.

282. Latin-American History Since 1830. Winter. (4 q. hrs.)

Political, economic, and cultural development; relationships between the Latin-American republics and the United States. The Monroe Doctrine; the Pan-American Union; the "Good Neighbor" policy; the origination of the American states.

Prerequisite: Sophomore standing.

323. Economic History of the United States, 1607-1860.

(Omitted 1967-68.) (4 q. hrs.)

An examination of the American economy to the Civil War. Growth of capacity to produce, evolution of entrepreneurial practices and business organization, changes in communications and markets, elements of labor force, government regulation, and economic philosophies.

Prerequisite: History 233.

324. Economic History of the United States, 1860-1929.

(Omitted 1967-68.) (4 q. hrs.)

An examination of the American economy from the Civil War to the crash of 1929.

Prerequisite: History 234.

325. Economic History of the United States, 1929 to the Present. (Omitted 1967-68.) (4 q. hrs.)

An examination of the American economy from the crash of 1929 to the present.

Prerequisite: History 235.

343. History of England to 1603. Fall. (4 q. hrs.)

Early settlement of the British Isles; Roman occupation, Anglo-Saxon civilization; the early Church; the Norman Conquest and relations with France; the development of the common law and Parliament; the development of the Church and the separation of the Anglican Church; English art and literature.

344. History of England and the British Empire, 1603 to 1815. Winter. (4 q. hrs.)

Discovery, colonial expansion, the founding of the British Empire; the constitutional struggles and the supremacy of Parliament; the commercial, agricultural, and industrial revolutions; the literature and science of the period; the struggle with France for colonial supremacy.

345. History of the British Empire Since 1815.

Spring. (4 q. hrs.)

The reformation of Parliament; the development of industry and commerce and trade rivalry; development of scientific thought; the First World War and its consequence; the Empire's greatest test in the Second World War.

370. History of Illinois. (Omitted 1967-68.) (4 q. hrs.)

The Indian culture; the French regime; the British period; the old Northwest; the frontier state; the Civil War; the industrial state; the twentieth century.

371 (492). Expansion and Disunion, 1820 to 1861.

Winter. (4 q. hrs.)

Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.

Prerequisite: History 233, 234.

372 (471). Civil War and Reconstruction. Spring. (4 q. hrs.)

The causes of the Civil War; political, economic, and social problems during the War; the military phases of the War; post-war problems both North and South; the Civil War as a revolution.

Prerequisite: History 234 or consent of instructor.

378 (478). Czarist Russia. (Omitted 1967-68.) (4 q. hrs.)

The rise of Muscovy. Peter the Great and Katherine the Great; the Napoleonic era; reaction and reform in the nineteenth century; Russia in the First World War.

379 (479). Soviet Russia. (Omitted 1967-68.) (4 q. hrs.)

The organization of the Communist Party; the Revolution of 1917; Lenin and Stalin; Russia and World War II.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Constitutional History of England. Winter. (4 q. hrs.)

A study of the English constitution to the time of Henry VII. Emphasis on the development of political institutions essential to

western democracy, special emphasis on the development of the common law, the court system, the conflicts between king and parliament, and changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor.

454. Constitutional History of England. Spring. (4 q. hrs.)

A study of the English constitution since the time of Henry VII. Emphasis on the development of political institutions regarded as essential to western democracy, with special emphasis on the development of the common law, court system, conflicts between king and parliament, and the changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor.

460. Recent United States History, 1900-1930.

Winter. (4 q. hrs.)

This course will be an intensive study of America's rise to world power, the Progressive Era, the United States' role in the First World War, the 1920's and the background to the Great Depression.

461. Recent United States History, Since 1930.

Spring. (4 q. hrs.)

This course will be an intensive study of the Great Depression, the New Deal, Isolationism, the U. S. and the Second World War, the Cold War, the Truman Era, and the Eisenhower Years.

462. Social and Intellectual History of the Russian Revolution, 1825-1917. Fall. (4 q. hrs.)

History of ideological, social, political, and economic forces which led to the Soviet Revolution of 1917; Decembrists, Radicals, Populism, and Marxism in Russia.

Prerequisites: History 247, and 248, or History 378.

463. Social and Intellectual History of the Russian Revolution, 1917 to Present. Winter. (4 q. hrs.)

February and October Revolution, War Communism, New Economic Policy, Collectivization and Industrialization, Party Congresses, Formation of the USSR, Dictatorship; Lenin, Stalin, Krushchev.

Prerequisites: History 248 or 379.

464. Major Problems in Latin-American History.

Fall. (4 q. hrs.)

A systematic, analytic, and interpretive examination of major problems of Latin-American history. Beginning with the principal aspects of the 300-400 years of Spanish and Portuguese heritage, the study proceeds through the national period to the present, considering the main features arising from the environment of the New World, in conjunction with the legacy of the Old.

465. Latin America and the United States. Spring. (4 q. hrs.)

An examination of the history of the relationships between Latin America and the United States from independence to the present day. The economic, social, and intellectual factors which underlie diplomatic intercourse are analyzed.

466. History of American Frontier, The Colonial Period (1492-1783). Fall. (4 q. hrs.)

A study of the discovery, settlement and westward push of population in the area now included in the United States, with emphasis on the effect of the frontier on the institutions and the people of America.

Prerequisite: History 233, or consent of instructor.

467. History of The American Frontier: The Trans-Appalachian Frontier, 1783-1850. (Omitted 1967-68.) (4 q. hrs.)

A study of the westward push of Americans into the Mississippi Valley, the growth of new states, the West in the War of 1812, and the role of the frontier west in the growth of sectionalism in the United States prior to the Civil War.

Prerequisite: History 233 and 234.

468. History of The American Frontier: The Western Frontier. Spring. (4 q. hrs.)

A study of the growth of the Trans-Mississippi West from the earliest Indian and Spanish influences through the period of American expansion and acquisition, and the growth of the West to prominence in American history to 1890.

Prerequisite: History 233, 234, 235, or consent of the instructor.

469. Constitutional History of the United States to 1865. (Omitted 1966-67.) (4 q. hrs.)

English backgrounds; the colonial governments; the Declaration of Independence; the Articles of Confederation; the early state constitutions; the making of the Constitution; the first Supreme Court, the Marshall court, the Taney Court.

Prerequisite: History 233, 234, 235, or consent of the instructor.

470. Constitutional History of the United States Since 1800. (Omitted 1966-67.) (4 q. hrs.)

The Reconstruction decisions; the Court and big business; the Court and imperialism; the Progressive Era. The Court and freedom of speech; the Court and civil rights, The New Deal.

Prerequisite: History 233, 234, 235, or consent of the instructor.

474. Diplomatic History of the United States, 1776-1898.
(Omitted 1967-68.) (4 q. hrs.)

The origins of American foreign policy; the American Revolution; the Napoleonic Wars; the expansion movements, the Civil War; the awakening of Imperialism.

475. Diplomatic History of the United States, 1898-1933.
Fall. (4 q. hrs.)

The New Manifest Destiny; the Spanish War; the Age of Roosevelt; Dollar Diplomacy; the New Diplomacy; World War I; the Peace of Versailles; the retreat from responsibility.

476. The American Colonies. Spring. (4 q. hrs.)

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

Prerequisite: History 233.

477. The American Revolution and Confederation. Fall.
(4 q. hrs.)

The background and causes of the American Revolution; political and social results of the revolution; problems of the Critical Period; formation of the Constitution.

Prerequisite: History 233.

480. Diplomatic History of the United States, 1933-Present.
Winter. (4 q. hrs.)

The isolationist thirties; the origins of World War II; the war-time conferences; the origins of the cold war; the emerging nations; the Sino-Soviet split; Truman, Dulles, Kennedy, Johnson.

485. Europe in the Eighteenth Century. Fall. (4 q. hrs.)

The struggle to maintain the balance of power; the contest for empire; the development of responsible government in England; the origins of industrial and agricultural revolution.

486. The World in the Twentieth Century I. Winter.
(4 q. hrs.)

Origins of World War I; Versailles and its aftermath; the emergence of new small nations and the spread of nationalism in Asia; the rise of Communism, Fascism and Nazism; the Great Depression; the era of dictatorship.

487. Labor History of the United States, 1607-1900.

Fall. (4 q. hrs.)

An examination of American labor from Colonial times to 1900. Deals with the various categories of labor (slave, indentured servant, wage); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political, and intellectual institutions and movements to the American laborer.

Prerequisite: History 233 and 234.

488. Labor History of the United States, 1900 to the Present.

Winter. (4 q. hrs.)

An examination of American labor from 1900 to the present. Deals with the various circumstances of labor (immigrant, Negro, urban, white-collar, agrarian); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political and intellectual institutions and movements to the American laborer.

Prerequisite: History 234 and 235.

489. The French Revolution. Winter. (4 q. hrs.)

The Old Regime; Estates-General and National Assembly; Republic, Consulate and Empire; the Napoleonic System; Waterloo.

490. Europe in the 19th Century. Spring. (4 q. hrs.)

Congress of Vienna; Reaction and Revolution; the Industrial Revolution; the Second Empire; unification of Italy and Germany; Parliamentary reform in Great Britain; Triple Alliance and Triple Entente.

495. Social and Intellectual History of the United States in the Colonial Period. Fall. (4 q. hrs.)

The transfer of culture from Europe to the English Colonies. The development of traits and ideas that are characteristic of the United States. The development of religious, scientific, educational, and political theories that influence the United States.

Prerequisite: History 233.

496. Social and Intellectual History of the United States in the 19th Century. Winter. (4 q. hrs.)

The development of ideas and way of life in the United States in the 19th Century.

Prerequisite: History 233 and 234.

499. Social and Intellectual History of the United States in the Twentieth Century. Spring. (4 q. hrs.)

The development of ideas and way of life in the United States during the twentieth century. Emphasis placed on the changes in American life and thought brought about by the United States participation in two world wars.

Prerequisite: History 235.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

535. Problems in the Emergence of Modern America, 1877-1900. (Omitted 1967-68.) (4 q. hrs.)

An intensive study by the student into the major problems created in this period of industrialization, urbanization, and immigration. The course will emphasize both primary sources and secondary interpretations.

Prerequisite: History 233, 234, and 235.

540. Problems in the Diplomatic History of the United States. Spring. (4 q. hrs.)

Intensive reading by the student in a major problem of American Diplomatic History. The course will emphasize both secondary and primary works in the area chosen by the professor.

Prerequisite: History 233, 234, 235, 487 and 488.

545 (472). Special Problems in American History. (Omitted 1967-68.) (4 q. hrs.)

Special study by intensive reading in an area of history.

546. The Period of the Early Renaissance, 1300-1517. Winter. (4 q. hrs.)

A study of the interaction of various institutional and intellectual developments, both religious and secular, which produced the cultural flowering of the early Renaissance, laid the foundations of modern society, and were to contribute to the religious upheaval of the Reformation.

547. The Period of the Later Renaissance and of the Reformation, 1517-1648. Spring. (4 q. hrs.)

A study of the interaction of religious and secular influence in the religious revolt and the consolidation of the institutional structure of early modern Europe through the period of the Thirty Years War.

550. Abraham Lincoln. Fall. (4 q. hrs.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551 (494). The Literature of American History. (Omitted 1967-68.) (4 q. hrs.)

A study of great historical writings against the backgrounds of the times and places in which they were written.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552 (493). The Literature of the History of Western Civilization. (Omitted 1967-68.) (4 q. hrs.)

A study of great historical writings against the backgrounds of the times and places in which they were written.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

561. Historiography and Historical Methods.
Fall. (4 q. hrs.)

A study of the methods of historical research. Selection of a topic of research and its limitations, the acquisition of material, and the study of style in historical writing.

563. Seminar in American History. Fall. (4 q. hrs.)

Intensive study of special topics in American history, to be determined by the interests of the students.

564. Seminar in European History. Fall. (4 q. hrs.)

Intensive study in special topics in European history, to be determined by the interests of the student.

565. Seminar in Colonial American History. Winter.
(4 q. hrs.)

Research in topics dealing with colonial American history.

566. Seminar in Civil War and Reconstruction.
(Omitted 1967-68.) (4 q. hrs.)

Intensive study in topics dealing with Civil War and Reconstruction.

567. Seminar in Social and Intellectual History.

Spring. (4 q. hrs.)

Research in topics dealing with social and intellectual history of the United States.

568. Seminar in Eighteenth Century Europe.

Fall. (4 q. hrs.)

Intensive study in topics dealing with eighteenth century Europe.

569. Seminar in Nineteenth Century Europe.

Spring. (4 q. hrs.)

Intensive study in topics dealing with nineteenth century Europe.

570. Seminar in Twentieth Century Europe.

Winter. (4 q. hrs.)

Intensive study in topics dealing with twentieth century Europe.

572. Russian Foreign Policy, 1814-1960. Spring. (4 q. hrs.)

Study in Russian foreign relations beginning with Congress of Vienna. Special attention given to the Congresses of Paris and Berlin, Russian expansion into the Balkans, Russia's role in both World Wars; Soviet Policy of international Communism and coexistence.

*Prerequisites: 247, 248, or consent of the instructor.***574. Seminar in the American West.** Winter. (4 q. hrs.)

An intensive study of western topics with emphasis on a seminar paper.

*Prerequisite: History 466 or 467 or consent of the instructor.***575. Seminar in the Labor History of the United States.**

Spring. (4 q. hrs.)

A detailed study of selected topics in the history of American labor from 1607 to the present stressing research, analysis, and writing in the specialized secondary and primary materials available.

*Prerequisite: Either History 487 or 488.***595. Thesis.** (4 q. hrs.)**JOURNALISM**

(Taught in the Department of English)

UNDERGRADUATE COURSES**210. Introduction to Journalism (History of Journalism.)**

Fall. (4 q. hrs.)

Study of the historical development in America of the mass media, with emphasis on the newspaper, based mainly on Mott's *American Journalism*, with attention to the mechanics, the craft, and the ethics of journalism.

211. Beginning Reporting. Winter. (4 q. hrs.)

Principles of gathering and writing news, with practice in the classroom. Attention is given to identification of elements of the news, basic news story form, and variations of the basic form.

212. Beginning Reporting II. Spring. (4 q. hrs.)

Techniques of reporting are stressed, with practice in the classroom and on the Eastern News. Reporting of specialized stories is introduced.

Prerequisite: Journalism 211.

310. News Editing and Make-Up. Fall. (4 q. hrs.)

Editing the news, with attention to headwriting and newspaper makeup and design. Editing of newspaper photography is also discussed.

Prerequisite: Journalism 212.

311. Advanced Reporting. Winter. (4 q. hrs.)

Advanced types of news investigation and treatment. Practical experience is gained on a commercial newspaper. Writing of editorials and preparation of editorial judgments.

Prerequisite: Journalism 310.

312. Feature Writing (Magazine Articles). Spring. (4 q. hrs.)

Writing newspaper features and magazine articles. Study of markets, selection of subjects, investigation of subjects, organization of stories; preparation of articles.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. Supervision of High School Publications.**

Summer. (4 q. hrs.)

A course designed especially for advisers to high school publications, or students interested in such positions. Topics include staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

LIBRARY SCIENCE

Professor: Schaupp (Head)

Associate Professor: F. M. Pollard

Assistant Professor: Kim

Instructor: R. W. Lawson

(The Library Science department offers a sequence of basic undergraduate courses for the preparation of librarians. A minor consists of twenty-four quarter hours, including 330 or 332. The addition of Education 487 and 488 is necessary for certification as an Instructional Materials Coordinator. Courses are open to juniors and seniors only. Those intending to minor in the field should work out their programs with the instructors.)

UNDERGRADUATE COURSES

320. The School Library Materials Center. Fall and Winter.
(4 q. hrs.)

The organization and administration of school libraries, with special emphasis on instructional materials. The purpose, history, basic operation, and standards will be covered.

330. Literature for Children. Fall, Winter, and Spring.
(4 q. hrs.)

Types of resources best suited to children of grades 1 through 6. Includes reading and evaluation of materials both past and present; the study of children's needs and interests; their reading habits and abilities.

332. Literature for Young People. Fall and Winter. (4 q. hrs.)

Types of resources best suited for adolescents. Includes reading and evaluation of materials; the study of young people's needs and interests, abilities, and reading habits. Designed to acquaint the student with extent, selection, and use of materials.

430. Organization of Library Materials. Winter and Spring.
(4 q. hrs.)

Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other library materials. Detailed study is made of the Dewey Decimal Classification System.

Prerequisite: Library Science 320.

450. Reference Materials and Services. Fall and Spring.
(4 q. hrs.)

Introduction to general and specialized sources of information: their content, evaluation, and use. Includes preparation and use of bibliographies; the study of indexes, dictionaries, encyclopedias, and other reference tools.

Prerequisite: Library Science 320, or consent of instructor.

460. Selection of Library Materials. Fall, Winter, and Spring.
(4 q. hrs.)

Sources of and criteria for selection of all types of library materials; bibliographical tools, reviewing and evaluating media; publishers and jobbers; purchasing procedures; and other problems related to selection and acquisition.

Prerequisite: Library Science 320.

490. Observation and Practice.

Fall, Winter and Spring. (4 q. hrs.)

Designed to provide practical experience in library work with special emphasis on service to the public. Six periods per week under professional supervision comparable to student teaching. Weekly seminars under direction of the instructor. Part of this experience may be in the audio-visual field.

Prerequisite: At least four Library Science courses including 430, 450, and 460.

MATHEMATICS

Professors: Atkins, Derwort, DiPietro, Heller, Ringenberg (Head)

Associate Professors: Coon, Hsu, Nanda, Petridis

Assistant Professors: Christmas, Crabill, Erckmann, Hancock, Koontz, Laible, Meyerholtz, Pettypool, Queary

Instructors: LeDuc, L. J. Williams

Notes. In planning student programs it is important to check the course prerequisites as listed with the course descriptions below. "College preparatory mathematics," as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics," "consumer mathematics," "shop mathematics," etc.

A limited amount of programmed materials and tutoring service is available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 130.

Students with a weak background in mathematics may satisfy the general requirement in mathematics by taking Mathematics 125 if 4 quarter hours are required, Mathematics 125 and 126 if 8 quarter hours are required. Students with a background of two and one-half or more units of college preparatory mathematics in high school should take courses numbered 130 or higher to satisfy general requirements.

Students with a background of three or more units of college preparatory mathematics including trigonometry should take the mathematics department placement test before enrolling in Mathematics 130.

UNDERGRADUATE COURSES**122, 123. Number Systems and Informal Geometry.**

Fall, Winter, Spring; Winter, Spring. (3 q. hrs. for each course.)

Concepts of number and geometry developed using physical objects, sets of objects, and pictures. The growth of the number concept. Natural numbers, integers, rational numbers, real numbers.

Prerequisite: Enrollment in the curriculum for elementary teachers. Simultaneous registration in Education 120 is expected. Mathematics 122 is prerequisite to Mathematics 123.

125. Elementary Mathematics. Every quarter. (4 q. hrs.)

A selection of units on the basic concepts of arithmetic, algebra, geometry.

126. Elementary Mathematics. Winter. (4 q. hrs.)

Topics in elementary algebra and geometry including right triangle trigonometry and elementary statistics.

Prerequisite: Mathematics 125.

130. Algebra and Trigonometry. Every quarter. (4 q. hrs.)

Trigonometric functions; application to triangles; real numbers; sets; functions; equations; determinants and systems of linear equations.

Prerequisite: Two years of college preparatory mathematics.

131. Algebra and Trigonometry. Every quarter. (4 q. hrs.)

Mathematical induction; binomial theorem, exponents and logarithms; trigonometric identities and equations; complex numbers; theory of equations.

Prerequisite: Mathematics 130, or three years of college preparatory mathematics including trigonometry and satisfactory placement test score.

134. Analytic Geometry. Every quarter. (4 q. hrs.)

Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques.

Prerequisite: Mathematics 131, or four years of college preparatory mathematics including trigonometry, and satisfactory test score.

225. An Introduction to College Mathematics.

Fall and Spring. (4 q. hrs.)

Numeral systems; the natural number system; the computation algorithms; the growth of the number concept; rules of inference; sets, relations, functions; an introduction to groups and fields.

227. School Geometry. Fall and Winter. (4 q. hrs.)

The foundations of geometry. Elementary concepts of geometry from a modern point of view.

Prerequisite: Two years of college preparatory mathematics.

228. College Geometry. Spring. (4 q. hrs.)

Advanced Euclidean plane geometry; elementary transformations; homothetic figures; harmonic ranges; cross ratio; inversions; poles and polars; complete quadrilaterals and quadrangles.

Prerequisite: Mathematics 134.

231. Electronic Computer Programming. Every quarter.
(4 q. hrs.)

Digital computer programming. Laboratory practice on the IBM 1620 using basic machine language, SPS, FORTRAN, and GOTRAN.

Not open to freshmen.

232. Introduction to Computer Programming. Every quarter.
(1 q. hr.)

Computer programming in basic machine language and in FORTRAN.

235. Calculus. Every quarter. (4 q. hrs.)

Limits and continuity; the derivative concept; differentiation techniques through transcendental functions; Law of the Mean; applications.

Prerequisite: Mathematics 134.

236. Calculus. Every quarter. (4 q. hrs.)

Differentials; the integral concept; integration techniques; applications.

Prerequisite: Mathematics 235.

320. Mathematics in Grades K-3. Every quarter. (2 q. hrs.)

Methods and materials for teaching mathematics in grades K-3. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.

Prerequisite: Mathematics 122, 123.

321. Mathematics in Grades 4-6. Every quarter. (2 q. hrs.)

Methods and materials for teaching mathematics in grades 4-6. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.

Prerequisite: Mathematics 122, 123.

340. Teaching Mathematics. Every quarter. (4 q. hrs.)

Methods and materials for teaching mathematics (and physical science) in grades 7-12. Students with a minor in chemistry or physics may elect to include a survey of physical science methods and materials as a part of the course.

Prerequisite: Mathematics 235. Admission to teacher education.

343. Algebra. Fall, Winter. (4 q. hrs.)

Sets and relations; rings; integral domains; fields; polynomials; groups.

Prerequisite: Mathematics 235.

344. Linear Algebra. Winter, Spring. (4 q. hrs.)

The algebra of vectors and matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes.

Prerequisite: Mathematics 343 or consent of the instructor.

345. Calculus. Every quarter. (4 q. hrs.)

Integration techniques, infinite series, partial differentiation, multiple integration, with applications.

Prerequisite: Mathematics 236.

350. Differential Equations. Fall, Winter. (4 q. hrs.)

Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications.

Prerequisite: Mathematics 345.

351. Differential Equations. Spring. (4 q. hrs.)

Development of the theory and techniques associated with the linear differential equation; applications; existence theorems; systems of linear differential equations; methods of approximation.

Prerequisite: Mathematics 350.

391. Problems in the Teaching of Arithmetic.

Offered on demand in extension. (4 q. hrs.)

Assigned readings, group discussions, and individual or group projects and reports.

Not open to mathematics majors.

392. Some New Units in Mathematics for the Upper Grades.

Offered on demand in extension. (4 q. hrs.)

A course based on units prepared by the School Mathematics Study Group for grades seven and eight.

Not open to mathematics majors.

393. Number and Operation. Offered on demand in extension. (2 q. hrs.)

A study of the basic concepts of arithmetic from a modern point of view.

Not open to mathematics majors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460, 461. Advanced Calculus.** Winter, Spring.

(4 q. hrs. for each course.)

Vectors and vector functions; the calculus of functions of several

variables; line and surface integrals; Green's Theorem, and Stokes' Theorem.

Prerequisite: Mathematics 345.

470, 471. Statistics. Fall, Winter, Spring; Winter, Spring.

(4 q. hrs. for each course.)

Probability; statistical methods; empirical and theoretical frequency distributions; elementary sampling theory; correlation and regression; general principles for testing hypotheses and for estimation; statistical design in experiments.

Prerequisite: Mathematics 236.

480. Mathematics of Finance. Summer 1967. (4 q. hrs.)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131.

490. History of Mathematics. Summer 1967. (4 q. hrs.)

Development of numeral systems; ancient Babylonian and Egyptian mathematics; Euclid's Elements; duplication, trisection, and quadrature problems; Hindu and Arabian contributions to mathematics; mathematics in the Dark Ages; origins of modern mathematics.

Prerequisite: Mathematics 236.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. Numerical Analysis. Fall. (4 q. hrs.)

Rounding errors, difference equations, solutions of equations and systems of equations, interpolation, numerical differentiation.

Prerequisite: Mathematics 231 or 507; and Mathematics 350.

507. Digital Computer Techniques. Summer 1967. (4 q. hrs.)

Programming techniques using machine language, symbolic and automatic programming languages.

Prerequisite: Mathematics 345 or permission of the instructor.

508. Intermediate Computer Programming. Winter. (4 q. hrs.)

The structure and syntax of ALGOL. Selective topics in computer science.

Prerequisite: Mathematics 231, or Mathematics 507, or permission of the instructor.

510, 511, 512. Modern Algebra. Fall, Winter, Spring.
(4 q. hrs. for each course.)

Groups. Rings. Fields. Galois theory.

Prerequisite: Mathematics 343 and 344, or permission of the instructor.

520, 521. Higher Geometry. Fall, Winter. (4 q. hrs. for each course.)

A selection of topics from projective geometry, differential geometry, non-Euclidean geometries.

Prerequisite: Mathematics 344 or permission of the instructor.

522. Topology. Spring. (4 q. hrs.)

Metric spaces. Topological spaces. Connectedness. Compactness.

Prerequisite: Mathematics 460, or permission of the instructor.

530, 531, 532. Real Variables. Fall, Winter, Spring.
(4 q. hrs. for each course.)

Set theory, Cardinal numbers. Real numbers. Measure. Measurable sets. Lebesgue and Riemann integrals. The fundamental theorem of the calculus.

Prerequisite: Mathematics 461, or permission of the instructor.

533, 534, 535. Complex Variables. (Omitted 1967-68.)
(4 q. hrs. for each course.)

The complex plane and its subsets. Fractions, powers, roots, holomorphic functions. Power series. Complex integration. Representation of functions. The calculus of residues. Analytic continuation.

Prerequisite: Mathematics 461, or permission of the instructor.

540. The Teaching of Arithmetic in the Primary and Intermediate Grades. Summer. (4 q. hrs.)

The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six.

541. The Teaching of Mathematics in Grades 7, 8, and 9.
Summer. (4 q. hrs.)

The techniques, methods, and materials used in teaching mathematics in grades seven, eight, and nine.

545, 546, 547. Independent Study in Mathematics. Any quarter. (4 q. hrs. for each)

Advanced work on a topic or problem selected by the student, subject to the approval of his advisor.

Prerequisite: 12 q. hrs. of credit in graduate level mathematics.

550. Mathematics in Modern Education and Life.

Spring and Summer. (4 q. hrs.)

The subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Problems in the Teaching of Mathematics. Summer 1968.
(4 q. hrs.)

Recent curriculum advancements; study of topics selected from those proposed for study in secondary schools; effective teaching methods; assigned readings; reports.

595. Thesis. (4 q. hrs.)**PHILOSOPHY**

Associate Professor: Penn (Head)

Assistant Professors: Long, F. S. Taylor

Visiting Lecturer: Cho

It is an aim of the study of philosophy to develop a broad perspective and a clearer understanding of the nature and relation of Man, God, the World, and Value. The courses described below explore these areas of concern through examination of primary source materials, lectures, and class discussions.

Course Sequences

Philosophy 250 or Philosophy 301 are recommended as the most appropriate choice for students who elect a single course in Philosophy. As introductory treatments of the techniques and issues of philosophical inquiry, Philosophy 250 focuses attention on representative problems without reference to historical perspective, whereas Philosophy 301 explores a range of problems in an historical context. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

For students who may elect Philosophy as their option to satisfy the Humanities requirement, at least three approaches are feasible (depending on the student's interest): 1) Philosophy 250 and/or Philosophy 301 plus additional work in the History of Philosophy, 2) a sequence in the History of Philosophy beginning with Philosophy 301, and 3) a selection of courses including Philosophy 250, 270, and more advanced courses.

UNDERGRADUATE COURSES

250 (300). Problems of Philosophy. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to philosophic inquiry presented through analysis of selected problems: Knowledge and Truth, the Individual and the State, the Right and the Good, the Interpretation of Religion, God and Nature, and Alternative World Views.

Not open to Freshmen.

270 (400). Logic. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to the principles of sound reasoning and their application to effective communication: logic and language, informal fallacies, definition; deductive and formal logic; empirical scientific method.

Not open to Freshmen.

301. History of Philosophy: Ancient. Fall and Winter. (4 q. hrs.)

An historical approach to questions pertaining to Man, God, the World, and Values in which the ideas of philosophers from the Pre-Socratics through Aristotle are examined.

305. History of Philosophy: Medieval. Winter. (4 q. hrs.)

An examination of the ideas of the principal philosophers from Epicurus through St. Thomas Aquinas. The foundations of Christianity and implications for philosophy and theology.

Prerequisite: Philosophy 250 or 301.

306. History of Philosophy: Modern. Spring. (4 q. hrs.)

An examination of philosophical inquiry from Galileo through Kant: The quest for certainty. The foundations of modern science and implications for religion, morals, and political theory.

Prerequisite: Philosophy 250 or 301.

380. Contemporary Philosophy: European. (Omitted 1967-68.) (4 q. hrs.)

A study of recent movements in European philosophy with emphasis on the development of Analytical Philosophy, Logical Positivism, Phenomenology, and Existentialism.

Prerequisite: At least four quarter hours in Philosophy (Philosophy 306 recommended) or consent of the instructor.

381. American Philosophy. Spring. (4 q. hrs.)

A study of the development of American Philosophy with emphasis on the principal doctrines of the major philosophers from Jonathan Edwards to Whitehead.

Prerequisite: At least four quarter hours in Philosophy (Philosophy 306 recommended) or consent of the instructor.

402. Ethics. Fall and Spring. (4 q. hrs.)

A systematic study of the principal types of ethical theory. A consideration of major issues in ethics: The Right and the Good, the nature and validity of moral standards, the problem of conduct, and free will.

Prerequisite: At least four quarter hours in Philosophy.

404. Aesthetics. Fall. (4 q. hrs.)

An analysis of the meaning and value of beauty in terms of an examination of the types, elements, and structure of aesthetic experience; a consideration of significant interpretations of beauty in art; and a critical study of aesthetic criteria.

Prerequisite: At least four quarter hours in Philosophy.

410. Philosophy of Religion. Winter. (4 q. hrs.)

A philosophical interpretation of the meaning of religion, the character of religious experience and fundamental problems such as the nature and existence of God, evil, immortality, religious knowledge, and the relation of religion to philosophy, theology, and science.

Prerequisite: Four quarter hours in Philosophy.

430. Philosophy and Culture: Western. Winter. (4 q. hrs.)

An attempt to understand the character of Western civilization through an analysis of basic philosophical, scientific, religious, and aesthetic assumptions of the major cultures of the traditional Western world.

Prerequisite: At least eight quarter hours in Philosophy or consent of the instructor.

431. Philosophy and Culture: Eastern. Spring. (4 q. hrs.)

An attempt to understand the character of Eastern civilization through an analysis of basic philosophical, religious, and aesthetic assumptions of the traditional Eastern world (India, China, and Japan). The problem of ideological conflict: East versus West.

Prerequisite: Philosophy 430 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Philosophic Inquiry: An Adventure of Ideas.

Summer. (4 q. hrs.)

An exploration of man's thinking about himself, God, the World and Values presented through an analysis of selected philosophers

or schools of philosophy. This course is designed for the student with little or no previous training in philosophy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

PHYSICAL SCIENCE

(Taught by members of the Departments of Chemistry and Physics.)

Note: Physical Science 100, 101, 102 meet in two single periods and two double period laboratory sessions each week.

UNDERGRADUATE COURSES

100. Physical Science. Every quarter. (4 q. hrs.)

Basic concepts of physical science are presented through study of topics selected from physics and astronomy.

Physical Science 100 and 101 may be taken in either order or simultaneously. Credit may not be accepted toward a degree for both Physical Science 100 and Physics 130.

101. Physical Science. Every quarter. (4 q. hrs.)

Principles of chemistry having particular application in the field of elementary education are presented.

Credit may not be accepted toward a degree for both Physical Science 101 and Chemistry 120.

102. Physical Science. (Omitted 1967-68.) (4 q. hrs.)

A continuation of 100 and 101. A study of electricity, atomic structure, radioactivity, isotopes, and the chemistry of foods.

Prerequisite: Physical Science 100, 101.

These courses are restricted to students in the curriculum in elementary education.

340. Methods of Teaching Physical Sciences.

Winter. (4 q. hrs.)

The presentation of science lessons and the examination of current literature and new approaches to chemistry and physics. A unit on methods and materials for teaching mathematics is included.

Prerequisite: Admission to teacher education.

PHYSICS

Professors: Cloud, Lefler (Head), P. S. Smith, Waddell

Associate Professors: Breig, Eisenhour, Whalin

Assistant Professors: A. J. Hoffman, Taitt

Instructors: D. K. Fowler, Keller

Faculty Assistant: Gibson

Note: All courses except where otherwise indicated in the course description have two lecture periods and two laboratory periods a week.

UNDERGRADUATE COURSES

120, 121, 122. Physics for Music Students.

Fall, Winter, Spring. (4 q. hrs. for each course.)

Physics 120, astronomy, mechanics, and heat; Physics 121, sound and acoustics as applied to music and speech correction; Physics 122, light, electricity, and modern physics. Enrollment limited to music and speech correction majors or minors.

130, 131, 132. First Year College Physics. Every quarter.

(4 q. hrs. for each course.)

Physics 130, mechanics; 131, wave motion, heat, and electricity; 132, magnetism, light, and nuclear physics.

Acceptable as a year of laboratory science in any curriculum. These courses should be taken in the order listed.

236. Physical Optics and Quantum Theory.

Every quarter. (4 q. hrs.)

This is a continuation of the first year college physics sequence. Polarization; interference; diffraction; atomic models; spectra; relativity; X-rays; matter waves.

Prerequisite: First year college physics.

Co-requisite: Mathematics 235.

239. Mechanics. Fall and Winter. (4 q. hrs.)

Motion of a particle in one dimension; simple harmonic motion; damped motion; forced harmonic oscillator; vector algebra; vector operators in various coordinate systems.

Prerequisite: First year college physics and Mathematics 235, co-requisite Mathematics 236. Four hours a week.

240. Mechanics. Winter and Spring. (4 q. hrs.)

Conservative fields; central force motion; motion of a system of particles; gravitational potential; gravitational fields, vibrating string; accelerated coordinate systems.

Prerequisite: Physics 239. Four hours a week.

250. Electronics. Spring. (4 q. hrs.)

A study of the fundamentals of tube and transistor electronics. Emphasis is on amplifiers and the special circuits used in applied science, such as cathode followers, multivibrators and timing circuits. Four laboratory periods a week.

Prerequisite: First year college physics and Mathematics 235.

341. Electricity and Magnetism. Fall and Spring. (4 q. hrs.)

Coulomb's Law; vectors; electric field strength; potential;

Gauss' Law; capacity; dielectrics; solutions of electrostatic problems; electrostatic energy; DC circuits and instruments.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week.

342. Electricity and Magnetism. Winter. (4 q. hrs.)

Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; electrical equipment; L, R and C circuits; Maxwell's Equations and radiation.

Prerequisite: Physics 341. Four hours a week.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Electrical Measurements. (Omitted 1967-68.) (4 q. hrs.)

DC and AC circuit analysis, current and ballistic galvanometers; bridge and potentiometer circuits; measurement of resistance, inductance, capacitance, and electromotive force; thermoelectromotive force; magnetic measurements. Four laboratory periods a week.

Prerequisite: First year college physics, Mathematics 235 and 236.

461, 462. Experimental Physics. Fall and Winter.

(4 q. hrs. for each course.)

Experiments from various phases of physics. Emphasis is placed upon selection of the experiment, planning the procedure, analyzing the results, and reporting. Four laboratory periods a week.

Prerequisite: Physics 466 and one year of calculus.

465. Heat and Thermodynamics. Spring. (4 q. hrs.)

Thermometry, thermodynamic laws; changes of phase; gas laws; mechanical relations and heat engines; adiabatic transformations; entropy, kinetic theory and statistical mechanics.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

466. Atomic Physics. Spring. (4 q. hrs.)

Atomic Structure and the origin of spectral lines, energy levels, introduction to quantum mechanics, the one electron atom, shells, subshells, angular momentum selection rules, multiplet levels, L S coupling, X-rays, Compton effect.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

467. Introduction to Quantum Mechanics. Fall. (4 q. hrs.)

Limitations of classical mechanics; Schrodinger equation; harmonic oscillator; uncertainty principle; exclusion principle; periodic table; perturbation theory; hydrogen atom; electron spin.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

468. Nuclear Physics. Winter. (4 q. hrs.)

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models; nuclear detectors; nuclear accelerators; cosmic rays.

Prerequisite: Physics 466 or 467 or permission of the instructor.
Four hours a week.

469. Solid State Physics. Spring. (4 q. hrs.)

Crystal structure; thermal properties of solids; dielectric and magnetic properties of solids; superconductivity; free electron theory of metals; band theory of metals; semiconductors and insulators; surface phenomena; imperfections in crystals.

Prerequisite: Physics 466 or 467 or permission of the instructor.
Four hours a week.

480, 481, 482. Special Physics Problems. Offered on demand.
(4 q. hrs. for each course.)

Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: Permission of instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

515. Mechanics. (Offered on demand.) (4 q. hrs.)

Generalized coordinates; normal coordinates; accelerated reference frames; Euler's equations; moving coordinate systems; vibrating string; center of mass coordinates; fluids.

Prerequisite: Physics 240. Four hours a week.

520. Mathematical Physics. (Offered on demand.) (4 q. hrs.)

Special differential equations; special functions; elements of complex integration; tensors; calculus of variations; eigen values and eigen functions; matrices and matrix algebra; numerical calculations.

Prerequisite: Physics 240 and 342. Four hours a week.

534. Theoretical Mechanics. Offered on demand. (4 q. hrs.)

Vectors; laws of motion; particle statics and dynamics; central field motion; energy and momentum principles for a particle and for systems of particles; mechanics of a rigid body.

Prerequisite: Physics 240 or equivalent and Mathematics 351.
Four hours a week.

535. Theoretical Mechanics. Offered on demand. (4 q. hrs.)

Constrained motion, oscillatory motion; deformable bodies; fluid mechanics; generalized coordinates; Lagrange's equations; Hamilton's canonical equations.

Prerequisite: Physics 534. Four hours a week.

540. Electrodynamics. (Offered on demand.) (4 q. hrs.)

Electrostatic; general methods of solving potential problems; boundary value problems; multipoles, dielectrics; magnetostatics.

Prerequisite: Physics 342. Four hours a week.

541. Electrodynamics. (Offered on demand.) (4 q. hrs.)

Maxwell's equations; electromagnetic waves; wave guides and resonant cavities; radiation and diffraction; special theory of relativity.

Prerequisite: Physics 540. Four hours a week.

542. Electrodynamics. (Offered on demand.) (4 q. hrs.)

Relativistic particle dynamics; collisions, energy loss and scattering; radiation by moving charges; multipole fields; radiation damping, self-fields, scattering and absorption.

Prerequisite: Physics 541. Four hours a week.

560. Quantum Mechanics. (Offered on demand.) (4 q. hrs.)

A study of quantum eigen values and eigen functions of the Schrodinger equation for various central fields; angular momentum eigen functions; perturbations dependent on and independent of time.

Prerequisite: An undergraduate major in physics. Four hours a week.

561. Quantum Mechanics. (Offered on demand.) (4 q. hrs.)

The quasi-classical case; spin and spinors; identify and exchange interaction of particles; the hydrogen atom and extension of the Schrodinger equation to other atoms and effects, the diatomic molecule and vibrational and rotational spectra; polyatomic molecules.

Prerequisite: Physics 560. Four hours a week.

562. Quantum Mechanics. (Offered on demand.) (4 q. hrs.)

Elastic and inelastic collisions; Feynman notes; spin and statistics, relativity, Fermi coupling and the failure of parity; pion-nucleon coupling; strange particles; fundamental laws of electromagnetics and B-decay coupling.

Prerequisite: Physics 561. Four hours a week.

580. Current Literature in Physics. Offered on demand.

(4 q. hrs.)

Reading, conference, oral reports.

*Prerequisite: Two years' work in physics.***590. Mathematical Physics.** (Offered on demand.) (4 q. hrs.)

Waves in an elastic medium; motion of fluids; scalar and vector fields and the variational principle; complex numbers and complex variables; Cauchy's Theorem; branch points and branch lines; Riemann surfaces; calculus of residues; gamma and elliptic functions; Fourier transforms; differential equations and separable coordinates; series solutions and the Wronskian; integral representations of differential equations.

*Prerequisite: Physics 520. Four hours a week.***591. Mathematical Physics.** (Offered on demand.) (4 q. hrs.)

Boundary conditions and eigen functions; Green's functions and generating functions; Green's functions for steady waves and for diffusion; integral equations of physics; kernels; Fredholm Equations; approximate methods; La Place's and Poisson's Equations in two and three dimensions; integral and variational techniques for solving wave equations.

*Prerequisite: Physics 590. Four hours a week.***595. Thesis.** (4 q. hrs.)**POLITICAL SCIENCE***Associate Professors:* Bloss, Faust, Nichols, Strange (Acting Head)*Assistant Professors:* Connelly, Soderberg**UNDERGRADUATE COURSES****100. Elements of Government.** Fall, Winter, and Spring.

(4 q. hrs.)

Comparative analysis of the institutions and ideologies of contemporary democratic and dictatorial governments designed to provide a systematic overview of the field.

110. American National Government: Constitutional Foundations. Fall, Winter, and Spring. (4 q. hrs.)

Fundamental principles of the American Constitutional system. A treatment of basic concepts of government; constitutionalism; federalism; civil liberties; citizenship; nominations, elections, and political parties.

111. American National Government: Policy Making and Administration. Fall, Winter, and Spring. (4 q. hrs.)

Congress, the Presidency, bureaucrats, and the judiciary. National policies and administration in foreign affairs, defense, business regulation, agriculture, housing, education, etc.

112. State and Local Government. Fall, Winter, and Spring. (4 q. hrs.)

Legal authority, structure, leadership and functions of state, county, city, township, and special district governments. The Illinois State Constitution is analyzed.

220. Introduction to International Relations. Fall. (4 q. hrs.)

An examination of the nature of the nation-state system and of the sources of conflict in the international community.

Prerequisite: Political Science 100 or 110 or consent of the instructor. Not open to freshmen.

222. International Organization. Spring. (4 q. hrs.)

Development, scope, and functions of general international organization. Emphasis upon the United Nations system and regional organizations such as the European Economic Community.

Prerequisite: Political Science 220 or consent of the instructor. Not open to freshmen.

230 (330). Comparative Governments: The United Kingdom. Fall. (4 q. hrs.)

The political system of the United Kingdom of Great Britain and Northern Ireland with particular attention to the nature of the Constitution, the party system, Parliament, the Crown, and the Commonwealth of Nations.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

231 (331). Comparative Governments: Western Europe. Winter. (4 q. hrs.)

The political systems of France, West Germany, and/or other countries of Western Europe selected by the instructor.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor.

232 (332). Comparative Governments: The U.S.S.R. Spring. (4 q. hrs.)

The political system of the Union of Soviet Socialist Republics; the role of the Communist Party, the nature of the constitutional system, and the evolution of Marxism-Leninism-Stalinism.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

280. Introduction to Political Analysis. Fall. (4 q. hrs.)

Analytical approaches to the study of Western and Non-Western political systems with emphasis on political problems, functions and processes.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

336. Governments of Asia. (Omitted 1967-68.) (4 q. hrs.)

The growth and development of political concepts and institutions in the three major powers of Asia—China, Japan, and India. Limited consideration of problem areas in other Asian states.

Prerequisite: Political Science 100 or 110 or consent of the instructor.

364. Problems of State and Local Government.

Fall. (4 q. hrs.)

Case studies of selected problems. Individual student research on a current problem of state or local government.

Prerequisite: Political Science 112 or consent of the instructor.

365. Political Behavior. Winter. (4 q. hrs.)

Analysis of individual and group behavior in the political context with emphasis on the literature of current research in American political institutions and processes.

Prerequisite: Political Science 110 and 111, or consent of the instructor.

366 (466). Political Parties and Elections. Spring. (4 q. hrs.)

Political parties, party systems, policies, and electoral arrangements in the United States and abroad, with particular attention to the organization, functions, and methods of American political parties and to the interrelationships of electoral and party systems.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

367. Interest Groups. (Omitted 1967-68.) (4 q. hrs.)

Analysis of the role and techniques of labor, business, agrarian, ethnic, and other groups in the political process. Emphasis on American groups and political institutions.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

369. The Legislative Process. Spring. (4 q. hrs.)

A comprehensive examination of the institutional structures and

functions of legislative bodies with emphasis on American examples.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

370. American Foreign Policy. Fall. (4 q. hrs.)

A consideration of factors shaping contemporary American foreign policies. The conduct of American foreign relations and major problems of implementing American policy decisions are analyzed.

Prerequisite: Political Science 220, or 221, or 222, or consent of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. American Constitutional Law. Spring. (4 q. hrs.)

Supreme Court decisions on: Judicial Review, Federalism, Powers of Congress, Powers of the President, Contracts, Commerce, Taxation, Citizenship, Speech, Press, Religion, Communism, Race Discrimination, Criminal Procedure.

Prerequisite: Political Science 110, 111; or History 233, 234, 235, or consent of the instructor.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

465. Public Administration. Winter. (4 q. hrs.)

Growth of public administration, the system of responsibility and accountability, relationship of administration and politics, technical aspects of administration, problems of administrative leadership and direction.

Prerequisite: Political Science 100, 110, 111, 112, or consent of the instructor.

480. Politics of the Emerging Nations. Fall. (4 q. hrs.)

A comparative survey of the politics and governments of the emerging nations in Africa, Asia, the Middle East, and Latin America.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

481. Latin American Government and Politics.

Winter. (4 q. hrs.)

A systematic study of the constitutions and formal structure of Latin-American governments; and an analytical and interpretive examination of the political processes which underlie them.

Prerequisite: Political Science 100, or 110 and 111, or consent of the instructor.

490. Political Theory: Ancient and Medieval. Fall. (4 q. hrs.)

The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement.

Restricted to majors in History, Social Science, Political Science, or consent of the instructor.

491. Political Theory: Renaissance and Modern.

Winter. (4 q. hrs.)

A continuation of the study of political thought from the time of Niccolo Machiavelli through Karl Marx.

Restricted to majors in History, Social Science, or Political Science; or consent of the instructor.

492. Contemporary Political Theory. Spring. (4 q. hrs.)

Contemporary concepts in Western Political thought. Emphasis upon the development of modern conservatism, liberalism, Marxism, and national socialism. Independent research interests encouraged.

Restricted to majors in History, Social Science, or Political Science; or consent of the instructor.

493. Latin American Political Theory. Spring. (4 q. hrs.)

Latin American political thought beginning with its origins in Spain and Portugal. The colonial period and independence; the adaptations and changes successively brought about under "the republics."

Restricted to majors in History, Latin American Studies, Social Science, or Political Science; or consent of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. The American Presidency. Summer 1967 (4 q. hrs.)

Development, powers and limits of the American Presidency, with emphasis upon Presidential decision making.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

PSYCHOLOGY

Professor: Rothschild

Associate Professors: Chahbazi (Head), T. H. Lahey, Looby, H. A. Stackhouse

Assistant Professors: Coe, F. D. Kirby, Nunis

UNDERGRADUATE COURSES

231. Introduction to Psychology. Every quarter. (4 q. hrs.)

Research theories and methods; principles of motivation, emotion and perception; survey of normal and abnormal adjustment; nature of intelligence testing.

234. Advanced General Psychology. Every quarter. (4 q. hrs.)

A continuation of Psychology 231, including a more detailed study of learning, memory and recall, and thinking.

Prerequisite: Psychology 231.

261. Statistical Methods of Psychology. Every quarter. (4 q. hrs.)

Application of statistical methods to behavioral data.

Prerequisite: Psychology 231.

281. Experimental Techniques I. Every quarter. (4 q. hrs.)

Fundamental techniques of stimulus control and response measurement.

Prerequisite: Psychology 231.

282. Experimental Techniques II. Every quarter. (4 q. hrs.)

A continuation and expansion of Psychology 281.

Prerequisite: Psychology 231 and 281.

331. Physiological Psychology. Fall. (4 q. hrs.)

A survey of the physiological correlates of the psychological behavior in man and lower organisms.

Prerequisite: Psychology 231 and 234 or permission of the instructor.

350. Developmental Psychology. Fall. (4 q. hrs.)

The span of life from conception to adolescence, emphasizing normal and deviant behavior.

Prerequisite: Psychology 231.

351. Applied Psychology. Every quarter. (4 q. hrs.)

Psychological principles applied to the professions, industry, and retail business.

Prerequisite: Psychology 231.

352. Adolescent Psychology. Winter and Spring. (4 q. hrs.)

The psychology of the adolescent in relation to: his family; his friends; the opposite sex; delinquent behavior; growth and development; his attitudes; his interests; and his values.

Prerequisite: Psychology 231.

353. Industrial Psychology. Every quarter. (4 q. hrs.)

Applications of the methods and principles of psychology to industrial situations.

Prerequisite: Permission of the instructor.

359. Theories of Personality. Spring. (4 q. hrs.)

An examination of the various theories of personality development, the methods of studying personality, the disorders of personality, and an attempt to establish generalizations relating to personality growth.

Prerequisite: Psychology 231.

360. Psychological Measurements: Fundamental Principles.

Winter, Spring, and Summer. (4 q. hrs.)

Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests.

Prerequisite: Psychology 231.

361. Theories of Learning. Winter. (4 q. hrs.)

Theories of learning based upon laboratory research.

Prerequisite: Psychology 231 and 281.

390, 391, 392. Independent Study in Psychology. Every quarter. (4 q. hrs. for each course.)

Advanced work on a topic selected by the student, subject to the approval of his advisor. Admission and assignment of problems by arrangement. Laboratory, reading, and weekly conference.

Prerequisite: Permission of the instructor.

425. History and Systems of Psychology. Fall. (4 q. hrs.)

A study of the history of psychology as an experimental science. A survey of contemporary systems of psychology based on experimental evidence and developed deductively.

Prerequisite: Permission of the instructor.

447. Social Psychology. Winter, Spring, and Summer. (4 q. hrs.)

Biological and social foundations of behavior, individual factors in adjustment, institutional behavior and conflict situations.

Prerequisite: Psychology 231.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. Psychology of Exceptional Children.**

Spring. (4 q. hrs.)

Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal.

Prerequisite: Psychology 231.

451. Abnormal Psychology. Fall, Spring, and Summer.
(4 q. hrs.)

Nature and dynamics of organic and functional neurosis and psychosis.

Prerequisite: Psychology 231.

452. Psychological Measurements: Intelligence Testing.
Spring. (4 q. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231 and Psychology 360.

455. Mental Hygiene. Winter and Summer. (4 q. hrs.)

Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.

Prerequisite: Psychology 231.

SOCIAL SCIENCE

(The courses in this section are taught by members of the Departments of Economics, History, Political Science and Sociology.)

UNDERGRADUATE COURSES

340. Methods and Materials in the Social Studies in the Secondary School. Fall, Winter, and Spring. (4 q. hrs.)

Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies. Analysis, evaluation, and application of methods. Techniques for appraising and selecting textbooks and other teaching aids.

Prerequisite: Admission to teacher education.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Basic methods of statistical research; measures of central tendency; dispersion; normal and binomial distribution; correlation; influence sampling; polling and interviewing.

SOCIOLOGY

Professor: W. G. Wood (Head)

Associate Professor: Stute

Assistant Professors: Dale, Delaney, Moore, Timblin

UNDERGRADUATE COURSES

271. Principles of Sociology. Every quarter. (4 q. hrs.)

Social relations and institutions; society as communication; competitive co-operation and functional patterns; spatial structure of society; social change; social disorganization.

272. Social Problems and Social Trends. Winter and Spring. (4 q. hrs.)

The nature of social problems; the problem of adjustment to external nature; population problems; control and care of defectives; the family and child welfare; crime; the meaning and agencies of social control.

365. Social Systems and Social Roles. Winter. (4 q. hrs.)

A consideration of the nature of individual social roles, social interaction, problems of mental health as related to the social milieu, culture and personality.

Prerequisite: Sociology 271 or consent of the instructor.

366. The Sociology of Religion. Spring. (4 q. hrs.)

The development and function of religious groups and institutions; an analysis of the functional significance of beliefs and rituals of selected systems of religious thought.

Prerequisite: Sociology 271 or consent of the instructor.

368. Public Opinion and Propaganda. Fall. (4 q. hrs.)

Analysis of the opinion making process; methods of opinion and attitude manipulation; propaganda techniques and methods of public opinion measurement.

Prerequisite: Sociology 271 or consent of the instructor.

381. The Sociology of Urban Life. Spring. (4 q. hrs.)

A systematic study of urban structure and organization; urban planning and renewal as related to problems of ecology; growth and development of urban communities.

Prerequisite: Sociology 271 or consent of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. The Development of Sociological Thought.

Winter. (4 q. hrs.)

This course treats the growth of social thought from the pre-

scientific to the modern empirical approach based on current modes of sociological inquiry.

Restricted to majors and minors in Sociology and Social Science.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

472. Social Stratification. Fall. (4 q. hrs.)

The problems of status, power, differential behavior; social mobility created by class differences in American society.

Prerequisite: Sociology 271 or consent of the instructor.

473. Marriage and the Family. Every quarter. (4 q. hrs.)

The historical background of the modern family; the impact of culture and social change on marriage and the family; personality factors involved in marriage; family disorganization.

474. The Social Problems of Minority Groups.

Winter. (4 q. hrs.)

A survey of the minority groups in the United States; their history, relationship to other groups, and their contributions to American culture.

Prerequisite: Sociology 271 or consent of the instructor.

475. Crime and Juvenile Delinquency. Fall. (4 q. hrs.)

The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology and rehabilitation.

Prerequisite: Sociology 271 or consent of the instructor.

491. Individual Problems in Sociology. Spring. (4 q. hrs.)

Special readings and topics in sociology; substantive evidence of independent scholarship is required.

Restricted to majors in Sociology and Social Science.

SPEECH

Professor: D. P. Garner (Head)

Associate Professors: J. J. Hopkins, McClerren, Norberg, Tame

Assistant Professors: Hadwiger, Rundle, C. N. Smith, Wiley, Wheatley

Instructors: M. A. Baker, Cash, Leathers, Russell

UNDERGRADUATE COURSES

131. Speaking in Public. Every quarter. (4 q. hrs.)

Fundamental principles and methods of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view for constructive influence in speech situations.

140. Parliamentary Law. Every quarter. (1 q. hr.)

The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.

230. Persuasion. Fall, Winter, and Spring. (4 q. hrs.)

A study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion as means of influencing the beliefs and actions of other persons.

Prerequisite: Speech 131 or consent of Department Head.

232. Discussion. Fall, Winter, and Spring. (4 q. hrs.)

A study of the nature of discussion and bases of belief, through lecture and class discussions in subject-problems, preparation, process, leadership techniques, participation, types and forms, and evaluation.

234 (332). Debate. Fall and Winter. (4 q. hrs.)

The study of the responsibility of the advocate in investigation and analysis evidence; structure of argument; reasoning and refutation. Application of these principles in practice debates.

Prerequisite: Speech 131 or consent of Department Head.

252. Introduction to Mass Communications (Broadcasting).
Fall. (4 q. hrs.)

A survey of the origin and growth of broadcasting, the social and legal bases of mass communication operations, and the physical nature of equipment of Radio, Television, and Motion Pictures.

320. Speech Criticism. (4 q. hrs.)

A comparative study in which standards of judgment deriving from the social interaction of a speech situation are applied to public addresses to determine the immediate or delayed effect of the speeches upon specific audiences, and ultimately, upon society.

Prerequisite: Speech 230.

330. Interview and Conference. (4 q. hrs.)

The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and inter-personal situations.

Prerequisite: Speech 131.

340. Teaching Speech. Spring. (4 q. hrs.)

A study of essential considerations in speech education; problems, methods and materials in teaching basic skills; teaching and directing co-curricular activities.

Prerequisite: Twenty quarter hours in speech. Admission to teacher education.

352. Radio Production. Winter. (4 q. hrs.)

A study of the equipment and techniques involved in producing radio programs. Problems in announcing, scripting, writing, and producing radio programs. Students direct and edit radio exercises.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**452. Advanced Theory of Mass Communications.** Spring.
(4 q. hrs.)

A survey of legal precedents which constitute broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research dealing with all mass communication.

453. General Semantics. (4 q. hrs.)

Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

470. Psychology of Speech. (4 q. hrs.)

A study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; individual and group communication; personality and speech.

480. Contemporary American Public Address.

(4 q. hrs.)

A study of competing points of view on a series of critical issues of the twentieth century.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

532 (471). Background of Rhetoric. Fall. (4 q. hrs.)

A survey of Classical, Medieval, and Renaissance Theories of Rhetoric including the works, of Plato, Aristotle, Cicero, Quintilian, Augustine, Ramus, Sherry, Wilson, Cox, and others.

540 (472). American Public Address. Winter. (4 q. hrs.)

A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.

555. Research in Speech. Fall. (4 q. hrs.)

An introduction to research methods, bibliographical resources, and professional writing in the field of speech.

560. Deliberation of Human Problems.

(4 q. hrs.)

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems.

562. Modern Rhetorical Theory. Winter. (4 q. hrs.)

A survey of theories of rhetoric from the eighteenth century to the present. Attention is given to the works of Ward, Blair, Campbell, Whatley, Adams, Austin, Curry, Burke, Flesch, Hall, Hefferline, Schramm, Weiner, Richards, Winans, Woolbert, Brigrance, and others.

572. British Public Address. (4 q. hrs.)

A study of twelve selected British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

595. Thesis. (4 q. hrs.)**SPEECH CORRECTION**

Professor: Thurman

Associate Professor: Griffith

Assistant Professors: Flugrath, L. E. Miner

Instructors: Booher, J. H. Robertson

UNDERGRADUATE COURSES

- 091. Communication I for International Students.** Offered upon demand. (4 q. hrs.)

An intermediate course dealing with oral communication problems of international students. Emphasis is on speech intelligibility and listening comprehension. Particular attention to the phonological, syntactical and semantic bases of oral communication. Specific assignments are individualized to meet students' needs.

Prerequisite: Consent of instructor.

- 092. Communication II for International Students.** Offered upon demand. (4 q. hrs.)

An intermediate course dealing with written communication problems of international students. Emphasis on reading and writing skills. Particular attention to processing visual symbol systems. Course assignments adapted to meet needs of students.

Prerequisite: Michigan Test of English Language Proficiency and consent of instructor.

- 093. Communication III for International Students.** Offered upon demand. (4 q. hrs.)

An advanced course dealing with oral and written communication problems of international students. Particular attention to establishing minimum proficiency in language skills necessary to profit from academic instruction in basic English and speech courses. Classroom assignments will be individualized.

Prerequisite: Michigan Test of English Language Proficiency and consent of instructor.

- 254. Structural and Functional Bases of Speech.**

Fall. (4 q. hrs.)

Organization and functioning of the speech and hearing mechanisms; basic neurologic, anatomical and physiologic concepts are applied to human communication.

- 255. Voice Science.** Winter. (4 q. hrs.)

Applies basic acoustical and physiological information to normal speech production. Emphasis is on production and control of the speech sounds and voice: pitch, loudness, quality, and rate.

- 260. Speech Pathology.** Spring and Summer. (4 q. hrs.)

A study of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders; a brief description of the treatment of these disorders.

- 262. Childhood Development of Speech.** Spring and Summer, 1968. (4 q. hrs.)

Growth and development of speech in children from birth to about seven years of age; special emphasis upon the developmental stages and factors influencing the acquisition of speech.

263 (451). Evaluation and Therapy. Spring. (4 q. hrs.)

Training in specific diagnostic techniques for speech disorders; planning and carrying out specific therapy techniques. Students observe therapy.

Prerequisite: Speech Correction 260.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**452. Voice and Articulation Disorders.** Fall. (4 q. hrs.)

Nature, causes and treatment of voice and articulation disorders.

Prerequisite: Speech Correction 260, 263.

453. Stuttering. Winter and Summer 1967. (4 q. hrs.)

Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated.

Prerequisite: Speech Correction 260, 263.

455. Audiometry and Hearing Aids. Fall. (4 q. hrs.)

Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests.

Prerequisite: Speech Correction 260, 263.

456. Audiology. Winter. (4 q. hrs.)

Speech and psychological problems of the deaf and hard of hearing; techniques in lip reading and speech rehabilitation.

Prerequisite: Speech Correction 260, 263, 455.

457. Advanced Clinical Practice. Every quarter. (1-4 q. hrs.)

Experience in organizing and conducting speech and hearing surveys; supervised work with a variety of speech and hearing defects.

A student may receive credit for one to four hours during any quarter provided he spends in clinic work thirty clock hours per quarter hour's credit.

Prerequisite: Speech Correction 260, 263.

458. Organic Disorders of Speech. Spring. (4 q. hrs.)

Etiology and therapy for organic disorders of speech: cleft palate, cerebral palsy, aphasia, and laryngectomy.

Prerequisite: Speech Correction 260, 263, 452.

459. Speech Correction Practice in the School Situation.

Every quarter. (4 q. hrs.)

Speech correction in a school situation; in the campus elementary school or in nearby public schools. Weekly conference with local supervisor and college supervisor required.

Prerequisite: Speech Correction 260, 263, 452, 453, 455, 456,

458.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

561. Introduction to Graduate Study in Speech Pathology and Audiology. Fall and Summer. (4 q. hrs.)

To orient the new graduate student to the nature, purposes, and methods of advanced study with emphasis on understanding of individual research and study.

Prerequisite: Permission of instructor.

562. Articulation Disorders. Fall and Summer 1968. (4 q. hrs.)

Advanced study of causes and treatment of articulation disorders. Testing, sympatology and therapy are stressed.

Prerequisite: Speech Correction 452.

563. Stuttering. Fall and Summer 1969. (4 q. hrs.)

Advanced study of the problem; integration of prominent theories and therapies in stuttering; analysis of significant findings and trends in research on stuttering.

Prerequisite: Speech Correction 453.

564. Voice Disorders. Winter. (4 q. hrs.)

Advanced study of etiology and therapy for functional and organic voice problems. Voice pitch, quality, intensity, and speech for the laryngectomee.

Prerequisite: Speech Correction 452.

565. Audiometry. Fall and Summer 1969. (4 q. hrs.)

Students develop advanced proficiency in the assessment of hearing losses. Emphasis is placed on a functional test battery, analysis of diagnostic problems and procedures, hearing aid selection and fitting.

Prerequisite: Speech Correction 455.

566. Aural Rehabilitation. Spring and Summer 1968. (4 q. hrs.)

Advanced study of rehabilitation for the hard-of-hearing.

Prerequisite: Speech Correction 456, 565.

567. Advanced Clinical Practice. Every quarter. (1-4 q. hrs.)

Supervised corrective work with clients with speech and/or hearing defects. Special efforts are made to provide each student with the kinds of clinical therapy experiences he has not met previously.

Prerequisite: Speech Correction 457.

568. Organic Speech Disorders. Winter. (4 q. hrs.)

Advanced study of cleft palate and cerebral palsy in children and adults; etiology, diagnosis, and therapy.

Prerequisite: Speech Correction 458 or consent of the instructor.

569. Speech Correction Problems in the Schools. Summer.
(4 q. hrs.)

Problems in speech therapy with school age children. Special emphasis is placed upon an understanding of the function of the speech correctionist employed in the public school.

Prerequisite: Speech Correction 260, Education 441, 442, 443, or consent of the instructor.

570. Research Procedures in Speech Science.

Winter and Summer 1968. (4 q. hrs.)

Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology.

Prerequisite: Speech Correction 561.

572. Language Disturbances. Spring and Summer 1969.
(4 q. hrs.)

Language patterns of children and adults with oral communication impairments. Special emphasis is placed on the diagnostic and therapeutic procedures.

Prerequisite: Speech Correction 260, 262, 458, Psychology 452, or consent of the instructor.

575. Special Problems. Every quarter. (1-4 q. hrs.)

Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing therapy.

Prerequisite: Permission of the instructor and the department head.

595. Thesis. Every quarter. (4 q. hrs.)

THEATRE ARTS

Professor: Gabbard (Head)

Associate Professor: Schneider

Assistant Professor: Vagenas

Instructor: Koertge

UNDERGRADUATE COURSES

132. Voice and Phonetics. Every quarter. (4 q. hrs.)

A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.

133. Beginning Oral Interpretation. Every quarter. (4 q. hrs.)

Designed to increase vocal skills through reading poetry and prose aloud. Emphasis on heightening enjoyment of literature and preparing the student for advanced work.

Prerequisite: Theatre Arts 132.

240. Introduction to the Theatre. Winter. (4 q. hrs.)

A general introduction to theatrical and dramatic art. Emphasis is on providing the student with the tools of analysis which will give him insight into the total imaginative process that makes up the art of the theatre.

244. Acting. Winter. (4 q. hrs.)

A study of the methods of learning and teaching techniques for the actor, including definite exercises and a practical approach to the art of acting.

257. Technical Direction. Fall. (4 q. hrs.)

Consideration of the elements of technical theatre direction; construction and painting of scenery and properties; theory and technique of stage lighting; stage management.

281. Summer Theatre. Summer. (8-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in theatre arts. Credit for 8 or 12 quarter hours may be earned in one summer.

333. Advanced Oral Interpretation. Winter. (4 q. hrs.)

Study and practice of the techniques of oral interpretation for public performances. Emphasis on analysis of materials, program building and criticism.

Prerequisite: Theatre Arts 133 or permission of the instructor.

357. Scene Design. Spring. (4 q. hrs.)

Step by step consideration of the design sequence from analysis of the script to the completion of production drawings; weekly design projects; familiarization with the forms and styles of scenery; practical experience.

Prerequisite: Theatre Arts 257, or permission of the instructor.

358. Design and History of Costume. Spring. (4 q. hrs.)

History of Costume from the early Egyptians to the present day. Costume design for theatrical productions.

431. Children's Dramatics. Winter. (4 q. hrs.)

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

445. Directing. Winter. (4 q. hrs.)

The study and actual production of the play. Central emphasis is placed on directing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**473. Theatre History.** Fall. (4 q. hrs.)

History of theatre from its early beginnings to the present day. Theatre as ritual and as an influence in civilization.

481. Summer Theatre. Summer. (8-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in dramatic art. Credit for 8 or 12 quarter hours may be earned in one summer. Eight hours may be applied to a master's degree.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

563. History of Dramatic Art. Fall. (4 q. hrs.)

Consideration of the staging of plays from the Greek theatre to the present, with emphasis on adaptation of techniques to school play production. Projects in planning productions under various conditions.

595. Thesis. (4 q. hrs.)**ZOOLOGY**

Professors: L. Durham, Ferguson, V. B. Kniskern, Peterka, Rawls, Riegel (Head), Scruggs

Associate Professor: Goodrich

Assistant Professors: Andrews, P. L. Foreman, Fraembs, Funk, Gray, Keppler, E. B. Krehbiel, Lackey, Maya, Mitri, Ridgeway, Whitley

Instructors: Hedges, Martinez

Research Associate: D. Marsden

UNDERGRADUATE COURSES

Classes in all courses except Zoology 340 meet in two single sessions and two double sessions each week.

101. General Zoology. Every quarter. (4 q. hrs.)

A study of tissues, organs, systems, physiology, reproduction and embryonic development, followed by a survey of the animal kingdom.

Prerequisite: Biology 100 or equivalent.

110. Basic General Zoology. Fall. (4 q. hrs.)

Fundamental animal structures; modern information on protoplasm, cells, tissues, organs and systems; physiological processes; simple Mendelian inheritance.

Open only to majors and minors in zoology.

111. Invertebrate Zoology.

This course deals comprehensively with the structure, adaptations, ecology, geographic distribution, phylogeny, and economic importance of the members of the invertebrate phyla of animals.

Prerequisite: Zoology 110 or equivalent. Open only to majors and minors in zoology.

120. General Zoology. Every quarter. (4 q. hrs.)

A consideration of fundamental biological structures and principles based upon animal material. Structure and physiology of cells, tissues, and organs.

121. General Zoology. Every quarter. (4 q. hrs.)

Types of animal reproduction, genetics, eugenics, and fundamentals of embryology.

Prerequisite: Zoology 120 or equivalent.

122. General Zoology. Every quarter. (4 q. hrs.)

The structure and natural history of animals of the various divisions of the animal kingdom. Their ecology, geographic distribution, economic importance and evolution are considered.

Prerequisite: Zoology 120, 121.

212. Vertebrate Zoology. Spring. (4 q. hrs.)

A study of the natural history of vertebrates with emphasis on Midwestern forms, including distribution, feeding habits, reproduction, economic importance, and classification.

Prerequisite: One course in Zoology.

214. Comparative Anatomy of Vertebrates. Fall. (4 q. hrs.)

A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms.

Prerequisite: Two courses in Zoology.

215. Embryology. Winter. (4 q. hrs.)

The development of vertebrate animals, including formation of germ cells, maturation, fertilization, growth, cellular differentiation, and heredity. Laboratory studies of the frog, chick and pig. Lectures include human embryology.

Prerequisite: One year of zoology.

225. Anatomy. Every quarter. (4 q. hrs.)

A study of osteology from human bones, followed by dissection of the cat. Primary emphasis on muscles with the specific object of understanding general body movement.

Prerequisite: None; however, two courses in biological science and sophomore standing are desirable.

327 (227). Parasitology. Fall and Summer. (4 q. hrs.)

The study of animal parasites, means of identification, life histories, and methods of control of the more common parasites, including those of man.

Prerequisite: Two courses in Zoology.

336. Genetics. Fall, Spring, and Summer. (4 q. hrs.)

A study of the basic laws of heredity and variation; laboratory experiments demonstrating the mechanisms of heredity; cytogenetics and the modern concept of gene action.

Prerequisite: Junior standing or 20 q. hrs. of zoology.

338. Elementary Entomology. Fall, Summer. (4 q. hrs.)

A study of insects common in the local environment. Means of recognition and life-history studies are stressed.

Prerequisite: Two courses in biological science. Open only to elementary education majors.

340. Methods of Teaching Biological Science in the High School. Every quarter. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

341. Problems in Zoology. Any quarter. (4 q. hrs.)

Designed to meet the needs of individual students who wish to do advanced work in some field of zoology.

Prerequisite: Five quarters of zoology and the permission of the department head.

343, 344, 345. Entomology. 343, Fall and Summer; 344, Winter; 345, Spring. (4 q. hrs. for each course.)

A study of insects. Deals with the morphology, classification, ecology and economic importance of this large class. Methods of collection and preparation of specimens are included.

Prerequisite: Three courses in Zoology; Zoology 343 is prerequisite for 344 or 345.

346 (226). Economic Entomology. (Omitted 1967-68.)
(4 q. hrs.)

A basic study of the structure, life histories and methods of control, followed by specific studies of the common insect pests found in Illinois.

Prerequisite: Zoology 343 or equivalent.

347. Fisheries Biology. Fall and Summer 1968. (4 q. hrs.)

The fundamentals of the study of the anatomy, classification, life histories and conservation of fish. Field work and study of local fish are stressed.

Prerequisite: Three courses in Zoology.

348 (Physiology 345). Human Physiology. Every quarter.
(4 q. hrs.)

A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration and digestion.

Prerequisite: One course in Zoology.

349 (Physiology 346). Human Physiology. Spring. (4 q. hrs.)

A continuation of the foregoing course in which studies are made of metabolism, excretion, organs of internal secretion (endocrine glands), special sense organs, and reproductive organs.

Prerequisite: Zoology 348, or permission of head of the Zoology Department.

350. Principles of Physiology. Winter and Spring. (4 q. hrs.)

A study of basic principles underlying the functions of protoplasm and organ systems.

Prerequisite: Two courses in biological science.

445. Cytology and Histology. Fall and Spring. (4 q. hrs.)

The microscopic structures and functions of cytoplasmic, nuclear and membrane components of cells, and a detailed study of tissues.

Prerequisite: One year of biological science.

449. Special Problems in Zoology. Any quarter. (4 q. hrs.)

An advanced course for those interested in studying some special problem in the zoology field. The work is done independently with advice of the instructor.

Prerequisite: Two years of zoology and permission of the department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. Microtechnique. Winter. (4 q. hrs.)

Methods and practice in the preparation of microscope slides of animal tissues. Some histological studies are included. A suitable collection of slides may be made for later use in teaching.

Prerequisite: Two years of zoology.

452. Animal Behavior. Spring. (4 q. hrs.)

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: Two years of zoology or permission of the department head.

453. Animal Ecology. Spring and Summer. (4 q. hrs.)

Interrelations between animals and their physical and biotic environments; biotic communities; population changes; succession; geographic distribution; adaptations. Laboratory work is done largely in the field.

Prerequisite: Two years of zoology, or equivalent and permission of the department head.

454 (450). Animal Histology. Summer 1968. (4 q. hrs.)

A microscopic study of animal tissues and organs and their origins and functions; advanced microscopic techniques.

Prerequisite: Zoology 451.

455. Ornithology. Spring. (4 q. hrs.)

A study of the life histories, adaptations, and structure of birds. Special emphasis upon migration, songs, nests and economic importance of our native birds.

Prerequisite: 12 q. hrs. of Zoology.

456. Field Zoology. Fall. (4 q. hrs.)

An intensive course in the classification and natural history of animal life indigenous to this region, exclusive of insects and birds.

Prerequisite: 24 q. hrs. of Zoology or equivalent.

457. Wildlife Management. Fall. (4 q. hrs.)

A study of the principles of wildlife management with emphasis on terrestrial game animals and related species; their ecology, life histories and conservation.

Prerequisite: One year of Zoology including Zoology 212 or equivalent; Zoology 453 and 455 recommended.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. History of Biology. Winter (4 q. hrs.)

A survey of the development of biological sciences from pre-history to the present. Contributions by various civilizations will be covered up to the Renaissance. After that era the development of specific fields (anatomy, genetics, etc.) will be considered.

Prerequisite: 24 q. hrs. of biological science.

521. Organic Evolution. Winter (4 q. hrs.)

The principles of, and evidence for organic evolution; history of the development of theories, and of scientists concerned with the subject.

Prerequisite: A minor or the equivalent in Zoology.

550. Ornithology. Summer 1968. (4 q. hrs.)

This course includes the study of structure, habits, life histories, migrations, identification, and conservation of birds. There is both field and laboratory work.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Local Fauna. Summer 1967. (4 q. hrs.)

A course in local fauna designed to acquaint the student with the animal life of this area. Methods of collecting, preserving and identifying animals are stressed. Includes a study of the habits and life histories of selected forms.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555, 556, 557, 558. Advanced Zoology. Any quarter.

(4 q. hrs. for each course.)

Courses designed to meet the needs of individual students who wish to do advanced work in some special field of Zoology.

Prerequisite: A minor or the equivalent in Zoology and the permission of the department head.

560. Advanced Systematics. Summer 1967. (4 q. hrs.)

A study of the methods and principles of animal taxonomy, including speciation (the evolution of species) and zoogeography.

Prerequisite: A minor or the equivalent in Zoology.

561. Endocrinology. Spring. (4 q. hrs.)

A study of the endocrine glands, the action of hormones, and the general features of the endocrine system.

Prerequisite: A minor or the equivalent in Zoology.

595. Thesis. (4 q. hrs.)

**FACULTY FOR
PROFESSIONAL
EDUCATION**

EDUCATION

Professors: A. U. Edwards, C. R. Garner, Matzner, McKenna, Moler (Chairman, Educational Psychology and Guidance), Schaefer (Dean), Stockman

Associate Professors: Corey, Crane, Grado, C. K. Green, Knapp, Schenke, Shuff (Chairman, Administration and Supervision), Stromquist, Zabka

Assistant Professors: Foster, Larson, Overton

COORDINATORS OF TEACHING PRACTICUM

Associate Professors: Erwin, McDonald, James H. Robertson

Assistant Professors: Bally, Chase, Elmore, Emmerich, Gray, Hancock, A. J. Hoffman, Lackey, Pettypool, Starck, Twenter

Instructors: Gregg, Hockman, Jorgenson, Leathers, Pierson, John H. Robertson, VanDeventer

UNDERGRADUATE COURSES

120, 121. Laboratory in Education. Every quarter. (1 q. hr.)

A laboratory course with emphasis on directed observations and individualized experiences with children of pre-school and elementary school ages, under a variety of environmental conditions.

Required of and restricted to freshmen and transfer students in the elementary education curriculum.

232. Human Growth, Development, and Learning.

Every quarter. (4 q. hrs.)

Physical, social, emotional, and intellectual growth and development of children and adolescents with an emphasis upon learning.

Prerequisite: Psychology 231. *Restricted to students in elementary, junior high, and dietetics curricula.*

311. Directing Learning in the Junior High School.

Fall and Winter. (4 q. hrs.)

Selection, organization, presentation of learning experiences and evaluation; application of principles of learning, classroom management, guidance as applied to junior high school organization; teacher relationships to staff, home, and community.

Prerequisite: Education 232 and admission to teacher education.

312. Instructional Media in the Junior High School.

Fall and Spring. (4 q. hrs.)

Nature, purpose, current trends in developmental reading programs in junior high school. Development of skill and appreciation of values, uses, and sources of instructional materials and equipment.

Prerequisite: Education 232 and admission to teacher education.

313. Teaching Social Studies and Language Arts in the Junior High School. Winter. (4 q. hrs.)

The objectives of social studies and language arts programs exclusive of reading; the nature, selection, and utilization of materials, methods, and content with emphasis upon integration of the two areas.

Prerequisite: Education 311 and admission to teacher education.

314. Teaching Mathematics and Science in the Junior High School. Spring. (4 q. hrs.)

The nature and scope of materials and methods in teaching mathematics and science, with concern for the possibilities of correlation of the two areas.

Prerequisite: Education 311 and admission to teacher education.

324. Directing Learning in the Elementary School.

Every quarter. (4 q. hrs.)

Selection, organization, presentation of learning experiences; emphasis on application of principles of learning, instructional programs, classroom management, guidance, evaluation; teacher relationship to staff, home, community, and the profession.

Prerequisite to student teaching. Prerequisite: Education 232 and admission to teacher education.

327. Teaching Social Studies and Language Arts; Use of Instructional Materials in the Elementary School. Every quarter. (4 q. hrs.)

Objectives, techniques, and materials of social studies and language arts excluding reading and children's literature; instruction in handwriting is included. Patterns of curriculum organization, unit teaching, selection and utilization of instructional materials and equipment.

Prerequisite: Education 324 and admission to teacher education.

328. Developmental Reading in the Elementary School.

Every quarter. (4 q. hrs.)

Basal reading program from kindergarten through junior high school; nature, purpose, and current trends in reading instruction; guiding principles, types of reading materials, techniques; evaluating progress.

Prerequisite: Education 324 and admission to teacher education.

329. Science in the Elementary School. Every quarter.

(4 q. hrs.)

Selection and development of units, demonstrations, and laboratory work.

Prerequisite: Biology 116, 117; Physical Science 100, 101; Education 324; admission to teacher education.

332. Educational Psychology. Every quarter. (4 q. hrs.)

Individual growth and development with emphasis upon the secondary student, learning theories and ways of facilitating the learning process, measurement and evaluation with emphasis upon standardized testing.

Prerequisite: Psychology 231 and admission to teacher education.

333. The Instructional Task in the Secondary School.

Every quarter. (4 q. hrs.)

Secondary school teaching as a profession; the secondary curriculum, guidance in the secondary school; selection and use of instructional material; the development of a secondary reading program.

Prerequisite: Education 332 and admission to teacher education.

334. Kindergarten Education. Winter and Spring. (4 q. hrs.)

Aims, organization, equipment and curriculum for nursery school and kindergarten, including recent trends and techniques. Prerequisite to teaching practicum in kindergarten.

Prerequisite: Education 324 and admission to teacher education.

441, 442, 443, 444. Teaching Practicum in the Elementary or Secondary School. Every quarter. (4 q. hrs. for each course.)

Twelve quarter hours of the teaching practicum are required for the Bachelor of Science in Education degree. Majors in secondary school curricula must take at least 4 quarter hours, preferably 8 quarter hours, of teaching practicum in major field.

Prerequisite: See Admission to Teaching Practicum.

443L. Professional Laboratory Experiences. Summer. (4 q. hrs.)

Laboratory experiences adapted to the needs of experienced elementary school teachers. Opportunity is provided for study of teaching through observations, discussions, and readings. Under certain conditions, this course may be substituted for Education 443.

Prerequisite: Education 441 and 442, permission of instructor and Director of the School of Elementary and Junior High School Teaching.

445. Philosophy and History of Education. Every quarter. (4 q. hrs.)

The chronological development of the main philosophical principles of modern educational practices.

Prerequisite: Admission to teacher education. Not open to students who have credit in Education 343 or 440.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. Problems in Secondary Education.** (Omitted 1967-68.)
(4 q. hrs.)

Concerned with specific problems in the evolution of secondary education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.

Prerequisite: Twelve quarter hours in education and psychology.

464. History of Education in the United States. (Omitted 1967-68.) (4 q. hrs.)

The colonial roots of pluralism; the single-track system; expansion of institutions and enrollments; and modern cross-currents.

Prerequisite: American history. Admission to teacher education.

466. Modern Trends in Education. (Omitted 1967-68.)
(4 q. hrs.)

Study of changes, trends, and problems in modern education with emphasis on underlying theories. Each student chooses for intensive study a problem of particular interest to him.

Prerequisite: Twelve quarter hours in education and psychology; admission to teacher education.

471. Teaching of Social Living in the Elementary School.
Summer. (4 q. hrs.)

A course in methods and materials related to teaching social living. Designed to aid teachers, supervisors, and administrators in understanding the role of history, civics, geography, and the natural sciences as interacting factors in solving social problems.

Prerequisite: Twelve quarter hours in education and psychology.

477. The Junior High School. (Omitted 1967-68.) (4 q. hrs.)

A course concerned with certain aspects of junior high school education—historical development, basic philosophy, practices.

Prerequisite: Twelve quarter hours in education and psychology, including Education 232 or 332 and Education 324 or 333.

484. Photography in Audio-Visual Education.
Fall. (4 q. hrs.)

Photographic techniques for making materials for use in classroom instruction, community resources and school public relations. Emphasis will be upon obtaining materials for prints, color slides and large transparencies to be used in the classroom.

485. School Law. Spring; Summer. (4 q. hrs.)

A course designed to develop an understanding of the basic legal factors related to the school. Professional and extra-legal controls are also considered.

Prerequisite: Twelve quarter hours in education and psychology.

487. Introduction to Audio-Visual Education.

Fall, Spring, Summer. (4 q. hrs.)

Theory and principles for use of audio-visual materials in teaching. Experiences are provided in the operation, selection, and utilization of audio-visual aids.

Prerequisite: Twelve quarter hours in education and psychology.

488. Preparation and Use of Instructional Materials.

Summer. (4 q. hrs.)

Production of locally prepared audio-visual materials using the techniques of mounting, lettering, and reproducing by pictorial or graphic means. Emphasis is upon improving communication in the learning process.

Prerequisite: Twelve quarter hours in education and psychology.

490. Principles and Techniques of Guidance.

Fall, Winter, Summer. (4 q. hrs.)

An introductory course; principles and purposes underlying guidance activities; means by which guidance activities may be carried on in the school system.

Prerequisite: Twelve quarter hours in education and psychology.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Television in Education. Summer. (4 q. hrs.)

Methods and techniques for effective instruction by means of open and closed-circuit television. Consideration will be given to the adaptation of television to school curricula. Sources of programs for school use will be explored. Evaluation of kinescopes, broadcast programs, and closed-circuit usages will be conducted.

521. Audio-Visual Systems. Spring. (4 q. hrs.)

Theory and principles in use of various systems such as teaching machines and programmed learning, filmed courses, taped courses, language laboratory programs. Emphasis is on the position of these systems in the curriculum and their influence on the curriculum and the teaching-learning situation.

527. Reading Instruction in the Junior and Senior High School. Fall and Summer 1967. (4 q. hrs.)

A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs.

Prerequisite: 16 quarter hours of education and psychology.

528 (469). Problems in the Teaching of Reading.

Fall and Spring; Summer. (4 q. hrs.)

A study of the types of reading and study difficulties; methods of diagnosis and remedial work useful to classroom teachers and supervisors. Experience with children in clinic whenever possible.

Prerequisite: Sixteen quarter hours in education and psychology, including Education 328 or equivalent.

540 (459). Advanced Educational Psychology. Fall.

(4 q. hrs.)

Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Twelve quarter hours in education and psychology.

543. Measurement and Evaluation. Summer. (4 q. hrs.)

Nature and use of standardized tests. Sources of test information, statistical concepts and devices used in measurement of achievement, evaluation of reliability and validity data and the interpretation of scores and profiles. Test planning, item construction and analysis assignment of marks.

Prerequisite: 8 q. hrs. in Human Growth and Development, and/or Psychology.

544. Educational Statistics. Summer 1967. (4 q. hrs.)

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology.

549. Special Educational Problems. (On demand.) (1-4 q. hrs.)

Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature.

Prerequisite: Junior standing or experience in teaching and permission of the instructor.

550. Principles of Curriculum Development. Every quarter.

(4 q. hrs.)

Basic concepts underlying curricula; processes used in curriculum development. Building of evaluative criteria for analyzing current and proposed curricula.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

551. Social Foundations of Education. Fall; Summer.

(4 q. hrs.)

Some of the effects of cultural patterns, economic changes, social stratifications, community and institutional organizations.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

552. Understanding the Individual. Every quarter. (4 q. hrs.)

Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality.

Prerequisite: Twelve quarter hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.

553. Philosophy of Education. Winter; Summer. (4 q. hrs.)

A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

554. History of Educational Thought. Spring, Summer. (4 q. hrs.)

Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

558. Child Study for the Elementary School Teacher.

(Omitted 1967-68.) (4 q. hrs.)

A study of the behavior of children as influenced by the impact of factors: physical, family relationships, cultural, social concepts (self), school experiences. Various child study techniques employed in gathering and handling child data for child study problems in the classroom.

Prerequisite: Education 232 or equivalent. 16 q. hrs. in Education and child psychology. Limited to experienced teachers working with children.

560. Introduction to Research in Education. Every quarter. (4 q. hrs.)

The nature and responsibilities of advanced professional study. Gives experiences in locating and defining problems, in using research techniques, in writing in acceptable form, and in interpreting and evaluating research.

Prerequisite: Sixteen quarter hours of education and psychology.

561. Advanced Developmental Reading. Winter and Summer. (4 q. hrs.)

A study of the educational and psychological backgrounds of reading instruction. Emphasis is placed upon the nature of the read-

ing instruction, programs of instruction, and methods and materials.

Prerequisite: Education 328 or equivalent.

562. Remedial Reading Practicum. Winter and Summer.
(4 - 8 q. hrs.)

Supervised practice in working with individual students in remedial reading situations. Practice will be provided using students from the laboratory school or from schools of the surrounding area.

Prerequisite: Education 528 and permission of instructor.

563. Supervision and Curriculum in Reading. Summer 1967.
(4 q. hrs.)

A study of selected curriculae and the planning of a sound school curriculum in reading; an understanding of the functions and duties of the reading supervisor or consultant and the effective ways of implementing them.

Prerequisite: Developmental Reading (Education 328) or Education 561.

564. Teaching and Supervision of Social Studies in Elementary Schools. Winter and Summer. (4 q. hrs.)

A study of the objectives, the scope and sequence of content in teaching social studies in elementary schools. Consideration is given to methods and techniques used in providing for individual differences through the effective use of concrete experience, audio-visual materials, group dynamics, reading, and evaluation.

565 (470). Language Arts in the Elementary School.
Spring. (4 q. hrs.)

A critical review of objectives proposed for language arts instruction (exclusive of reading and children's literature) with emphasis on their implications concerning organization of the program, content, materials, and procedures.

Prerequisite: Twelve quarter hours in education and psychology.

566. The Science Curriculum in the Elementary School.
Summer. (4 q. hrs.)

A course to help the elementary teacher, the elementary supervisor, and the elementary principal improve the elementary science curriculum. Scope and sequence of elementary school science; revision of existing science curricula; selection of materials for teaching the revised elementary science curricula.

Prerequisite: 8 q. hrs. of biological science, 8 q. hrs. of physical science, and Education 329 or permission of the instructor and the Dean of the Graduate School.

567. Advanced Laboratory in Elementary Education.

(Omitted 1967-68.) (4 - 8 q. hrs.)

A course designed for the study of educational problems, new trends and developments in areas of curriculum instructional materials, methods, techniques, using observations and demonstrations in the Laboratory School with analysis of instructional media and pertinent published research.

Prerequisite: 8 q. hrs. in graduate courses in elementary education.

568. Guiding Student Teaching. Summer 1967. (4 q. hrs.)

Theories, training programs and practices, and research findings in the field of teacher education with a major emphasis upon professional laboratory experiences. Limited to prospective college supervising teachers, coordinators, and co-operating teachers actively engaged in student teaching programs.

570. Psycho-Social Development in Childhood. Spring.

(4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours of education and psychology.

571. Psycho-Social Development of the Adolescent and Young Adult. Fall. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours of education and psychology.

572. Measurement Applied to Guidance. Fall, Winter, Summer. (4 q. hrs.)

A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques suitable for use in guidance programs.

Prerequisite: Sixteen quarter hours of education and psychology.

573. Play Therapy. (Omitted 1967-68.) (4 q. hrs.)

The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.

Prerequisite: Education 574 and 593.

574. Personality Dynamics. Fall, Spring, Summer. (4 q. hrs.)

A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation.

Prerequisite: Sixteen quarter hours of education and psychology.

576. Student Personnel Work in Higher Education. Spring.
(4 q. hrs.)

A study of the backgrounds of personnel functions in higher education including specific reference to such problems as admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Education 590.

577. Residence Hall Personnel Work. Winter. (4 q. hrs.)

A study of the functions of persons charged with managing and supervising university residence halls including administrative, business, counseling, and teaching duties.

Prerequisite: Education 490.

578. Theories of Aptitudes and Abilities. Summer. (4 q. hrs.)

A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior.

Prerequisite: Education 592 or permission of department.

579. Independent Study in Guidance. (On demand.)
(4 q. hrs.)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Education 590. Permission of the department.

580 (480.) School Organization and Administration.
Fall; Summer. (4 q. hrs.)

Educational administration in social and historical perspective; authentication of principles of administration; application of principles; legal structure of education as a state function.

Prerequisite: Twelve quarter hours in education and psychology.

581. School Supervision—A Group Process.
Fall; Spring; Summer. (4 q. hrs.)

The origin and development of the supervisory function. The roles of teachers, supervisors, and administrators in the practical application of theories of supervision.

Prerequisite: Education 550.

582 (481.) Work of the Principal in the Modern School.
(Omitted 1967-68.) (4 q. hrs.)

A basic professional course for the principalship in either the elementary or secondary school. The discussion, materials, and assigned problems are adapted to the interests and needs of the individual student.

Prerequisite: Twelve quarter hours in education and psychology, Education 580.

583. Administration and Supervision of the Elementary School. Winter. (4 q. hrs.)

Develops, for the student planning to enter a career in elementary school administration or supervision, an understanding of the interrelationship of pupils, staff and patrons. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisites: Admission to candidacy for the M.S.E. or enrollment in the Ed.S. Program.

584. Administration and Supervision of the Secondary School. Winter. (4 q. hrs.)

Develops for the student planning to enter a career in secondary school administration, an understanding of the role of the principal of the secondary school. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisites: Admission to candidacy for the M.S.E. or enrollment in the Ed.S. Program.

585. School Plant Planning. Winter. (4 q. hrs.)

Covers concepts and procedures for relating proposed school plants to the instructional program and community resources. Considers site selection, financing, legal requirements and the administration of the building program.

Prerequisite: Education 580 or equivalent.

586. School Finance. Spring. (4 q. hrs.)

A study of the legal basis for the support of public school, school revenues, and the expenditures of school funds, and an introduction to the concepts which underlie the accounting required for such funds.

Prerequisite: Education 580 or equivalent.

587. Personnel Administration: Teacher-Administrator Relationships. Spring. (4 q. hrs.)

The development of the principles and practices of personnel administration in educational institutions. Emphasis is placed on preparing the individual to operate effectively in the field of personnel relations under the manifold pressures exerted by individuals and groups.

Prerequisites: Education 580 or its equivalent.

589 (489). Seminar in Audio-Visual Education. Winter. (4 q. hrs.)

Special study on problems of production, administration and utilization of audio-visual materials in schools.

Prerequisite: Education 487, Education 488 or equivalent.

590. Current Practices and Problems in Counseling.

Winter; Summer. (4 q. hrs.)

A course in theory and practices of counseling with emphasis upon the duties of the school counselor.

Prerequisite: Education 490.

591. Organization and Administration of Guidance and Personnel Services. Spring and Summer. (4 q. hrs.)

Principles and current trends in organization and administration of school guidance programs; types of organizations, public relations, integration of guidance services and curriculum.

Prerequisite: Education 490.

592. Occupational, Educational, Personal, and Social Information. Winter; Summer. (4 q. hrs.)

A study of sources, evaluation, and use of occupational, educational, personal, and social information. Employment conditions, job requirements and training facilities.

Prerequisite: Education 490.

593. Counseling Practicum. Fall; Spring; Summer. (4 q. hrs.)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest.

Prerequisite: Education 590, 592.

594. Principles and Techniques of Group Guidance.

Spring. (4 q. hrs.)

A study of the principles and their application in the area of group guidance including techniques of group discussion, sociometrics, and role-playing.

Prerequisite: Education 590.

595. Thesis. (4 q. hrs.)**596. The Junior College Movement.** Spring. (4 q. hrs.)

History of the junior college movement in the United States with special attention to problems and issues affecting junior colleges in Illinois. Research is utilized in examining the extent to which the junior college is achieving its stated objectives.

Prerequisite: Sixteen quarter hours of education and psychology.

597. Seminar in Guidance. Winter, Summer. (4 q. hrs.)

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Education 590 and 592.

600 (580). Problems in School Administration. Fall and Summer. (4 q. hrs.)

An advanced seminar in problems of significance to educational administration.

Prerequisite: At least 12 credits in administration and supervision plus completion of Group I courses.

601, 602. The Field Experience in Administration. Every quarter. (4 q. hrs. for each course)

The field experience is designed to provide a comprehensive experience planned by the student's committee and the supervising administrator. Evaluation and supervision is the responsibility of the advisor.

Prerequisite: Admission to Candidacy for the Certificate of Advanced Study and approval of the department.

603. Seminar: Theory and Research in Educational Administration. Winter. (4 q. hrs.)

Presents the development of theories of administration in general and theories of educational administration in particular. A scientific and logical study of administrative performance and leadership behavior.

Prerequisites: Education 560 and Education 580 or equivalent plus the consent of the instructor.

604. Seminar: Interdisciplinary Approach to Educational Administration. Spring. (4 q. hrs.)

Examines the contributions of the Behavioral Science and the Humanities to the study and practice of Educational Administration. Provides an opportunity to integrate material derived from related area courses.

Prerequisites: Admission to Ed.S. Program and completion of at least 12 quarter hours in related academic disciplines. Permission of the instructor.

690. Field Study in Guidance. (Internship.) (4-8 q. hrs.)

Supervised experience in all services normally considered a part of the guidance program.

Prerequisite: Education 593 and approval of the department.

SCHOOL OF BUSINESS

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ACCOUNTING

Assistant Professors: Ballsrud (Head), A. C. Hoffman, Jensen, Rooke, Wyler
Instructor: Gross

230. Principles of Accounting 1. Every quarter. (4 q. hrs.)

An introduction to the basic concepts of accounting and uses of accounting information.

Not open to freshmen.

231. Principles of Accounting II. Every quarter. (4 q. hrs.)

Introduction to accounting concepts, systems and controls. Partnership and corporation accounting.

Prerequisite: Accounting 230.

232. Principles of Accounting III. Every quarter. (4 q. hrs.)

Specialized accounting problems. Includes cost, budgeting and statement analysis.

Prerequisite: Accounting 231.

233. Fundamentals of Accounting. Spring. (4 q. hrs.)

An introduction to accounting principles and techniques for the non-business major.

354. Intermediate Accounting I. Fall and Winter. (4 q. hrs.)

Review of fundamental processes on a higher level with additions not covered in beginning accounting; cash and temporary investments, receivables, inventories, current liabilities, investments, plant and equipment.

Prerequisite: Accounting 232.

355. Intermediate Accounting II. Winter and Spring. (4 q. hrs.)

Accounting for long-term debt, stockholders' equity, and intangible assets. Interpretation and analysis of financial statements. Financial data adjusted for price-level changes. Funds-flow and cash-flow reporting.

Prerequisite: Accounting 232.

356. Advanced Accounting Problems I. Spring. (4 q. hrs.)

Special accounting problems related to partnerships, corporate business combinations, consignment and installment sales, and governmental units.

Prerequisite: Accounting 355.

357. Advanced Accounting Problems II. Spring. (4 q. hrs.)

Special accounting problems related to joint ventures, branches and agencies, receivership and liquidation, estates and trusts, compound interest, and additional problems in corporate business combinations.

Prerequisite: Accounting 355.

360 (460). Cost Accounting. Fall and Winter. (4 q. hrs.)

An introduction to the usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis.

Prerequisite: Accounting 232.

363 (463). Accounting for Management. Winter and Spring. (4 q. hrs.)

Fundamental accounting concepts and techniques for planning and control.

Prerequisite: Accounting 232. Not open to Accounting Majors.

444. Advanced Auditing Theory and Practice.

Spring. (4 q. hrs.)

Theory and application of advanced techniques, special reports, ethics, legal responsibility, and their relation to the auditing standards.

Prerequisite: Accounting 464.

447. C.P.A. Problems I. Fall. (4 q. hrs.)

Application of accounting principles to problems of a professional level. Analysis and study of representative problems from C.P.A. examinations.

Prerequisite: Accounting 356.

448. C.P.A. Problems II. Spring. (4 q. hrs.)

A continuation of Accounting 447.

Prerequisite: Accounting 356.

490. Internship in Accounting. Arr. (4 q. hrs.)

Employment experience in public, industrial or governmental accounting, for one quarter, in a firm approved by the Head of the Department of Accounting.

Prerequisite: Permission of the Department Head and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**461. Federal Income Tax Accounting.** Fall and Winter. (4 q. hrs.)

The fundamentals of Federal Income Tax Accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and broad outlines of federal income taxation for individuals. Preparation of individual returns.

Prerequisite: Accounting 232.

462. Managerial Accounting. Fall. (4 q. hrs.)

An analysis of internal accounting data simulated by means of a case approach.

Prerequisite: Accounting 360 or 363.

464. Auditing Theory and Practice. Fall and Winter. (4 q. hrs.)

The examination and verification of accounting for the purpose of establishing the reliability of financial statements. Deals with the nature and application of auditing standards and procedures.

Prerequisite: Accounting 355.

466. Advanced Federal Income Tax Problems and Research.

Spring. (4 q. hrs.)

Emphasis on partnership, corporation, fiduciary tax problems. Consideration given to gift, estate, inheritance taxes. Corporate tax case research and report preparation.

Prerequisite: Accounting 461.

498. Readings in Accounting. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature in accounting in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the Head of the Department of Accounting.

BUSINESS EDUCATION AND SECRETARIAL STUDIES

Professor: Cooper (Head)

Associate Professor: Roberts

Assistant Professors: Chase, Graves

Instructors: Gregg, Murry, Sullivan

110. Typewriting. Every quarter. (4 q. hrs.)

Beginning touch typing instruction with emphasis on proper stroking, machine manipulation and placement of material. Minimum speed requirement: twenty words a minute for three minutes with not more than nine errors.

No credit toward graduation for students who have had the equivalent of one semester of typewriting instruction.

111. Typewriting, Continued. Every quarter. (4 q. hrs.)

Development of skill in machine operation and typing of personal letters, business letters, simple manuscripts and tabulations. Minimum speed requirement: thirty words a minute for five minutes with not more than five errors.

Prerequisite: Business Education 110 or the equivalent. Not open to students who have had the equivalent of two semesters of typewriting instruction.

112. Typewriting, Continued. Every quarter. (4 q. hrs.)

Business communications problems: typewritten letters, reports, manuscripts, tabulations. Minimum speed requirement: forty words

a minute for five minutes with not more than five errors.

Prerequisite: Business Education 111 or the equivalent. Not open to students who have had the equivalent of three semesters of typewriting instruction.

123. Shorthand. Fall and Winter. (4 q. hrs.)

Beginning instruction in Gregg Shorthand, Diamond Jubilee Series. Principles, brief forms, and phrasing.

Not open to students who have had the equivalent of one semester of shorthand instruction.

124. Shorthand, Continued. Winter and Spring. (4 q. hrs.)

Review of the principles of the system, brief forms, and phrasing. Dictation from familiar material of the Gregg Shorthand, Diamond Jubilee Series.

Prerequisite: Business Education 123 or the equivalent. Not open to students who have had the equivalent of two semesters of shorthand instruction.

125. Shorthand, Continued. Fall and Spring. (4 q. hrs.)

Vocabulary building. Introduction to transcription. Dictation from new material prepares the student for taking dictation in the business office.

Prerequisite: Business Education 124 or the equivalent. Not open to students who have had the equivalent of three semesters of shorthand instruction.

210. Advanced Typewriting. Every quarter. (4 q. hrs.)

Remedial and advanced training in speed and accuracy. Study of advanced office projects. Minimum speed requirement: forty-five net words a minute for five minutes with five errors or less.

Prerequisite: Business Education 112 or the equivalent.

211. Advanced Typewriting, Continued. Winter and Spring. (4 q. hrs.)

Speed and accuracy in the production of materials that meet rigid business requirements. Minimum speed requirement: fifty net words a minute for ten minutes with five errors or less.

Prerequisite: Business Education 210 or the equivalent.

212. Office Machines. Every quarter. (4 q. hrs.)

Familiarization with the function, use, and operation of adding and calculating machines, key-punch unit, tabulating-posting machine, voice-writing equipment, and duplicating devices.

Prerequisite: Business Education 111 or permission of the instructor.

223. Advanced Shorthand. Fall and Winter. (4 q. hrs.)

Transcription of business letters from dictated notes. Development of comprehensive vocabulary and ability to take dictation. Minimum speed requirement: eighty words a minute transcribed at not less than fifteen words a minute with 98 per cent accuracy.

Prerequisite: Business Education 125 or the equivalent and Business Education 112 or the equivalent.

224. Advanced Shorthand, Continued. Winter and Spring.
(4 q. hrs.)

Rapid note taking, accurate transcription, and mailable copies are stressed. Minimum speed requirement: one hundred words a minute transcribed at not less than twenty words a minute with 98 per cent accuracy.

Prerequisite: Business Education 223 or the equivalent.

225. Secretarial Practice. Spring. (4 q. hrs.)

Professional secretarial levels in taking dictation and transcribing. The role of the secretary in business and the professions. Minimum speed requirement: one hundred twenty words a minute transcribed at not less than twenty-five words a minute with 98 per cent accuracy.

Prerequisite: Business Education 224 or the equivalent and Business Education 210 or the equivalent.

340. Methods of Teaching Bookkeeping and the Basic Business Subjects. Fall and Spring. (4 q. hrs.)

A study of the curricular patterns in the bookkeeping and non-skill subjects in business education. Professional status of the business teacher, specific teaching methods, content, textbooks and teaching materials, and audio-visual aids.

Prerequisite: Admission to teacher education.

342 (472) Methods of Teaching Shorthand and Transcription. Winter and Spring. (4 q. hrs.)

Texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education.

344 (473). Methods of Teaching Typewriting and Office Practice. Fall and Winter. (4 q. hrs.)

Texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education.

440. Supervised Experiences in School Business Management. Arr. (4 q. hrs.)

School business is studied under the direction and supervision of a school business manager.

Prerequisite: Consent of the Head of the Business Education Department.

490. Internship in Vocational Business Education. Arr. (4 q. hrs.)

Employment experience appropriate to qualify for certification by the State Office for Vocational and Technical Education under the provisions of the Vocational Education Act of 1963. Employment is for one quarter, in a firm approved by the Head of the Department of Business Education and Secretarial Studies, to be agreed upon by the firm and the Department Head.

Prerequisite: Permission of the Department Head and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

492. Organization and Operation of Vocational Business Education Programs. Summer 1967, Spring. (4 q. hrs.)

Deals with the organization and operation of vocational office and distributive education programs under the provisions of the Vocational Education Act of 1963. Qualifies for vocational certification by the State Office for Vocational and Technical Education.

Prerequisite: Permission of Department Head.

493. Teaching Techniques in Vocational Business Education. Fall, Summer, 1968. (4 q. hrs.)

Specific techniques of counselling, teaching, and supervision as required in teaching classwork and supervising classroom vocational projects and part-time work experience. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of Department Head.

494. Coordination Techniques in Vocational Business Education. Winter, Summer 1969. (4 q. hrs.)

Study of the duties and responsibilities of the Office Occupations and Distributive Education Coordinator, including establishment of training programs, supervision of trainees on the job, development of individual training programs, establishing working relationships between school, business, and home. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of Department Head.

498. Readings in Business Education. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of his major field selected in cooperation with the department head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior or graduate standing with strong scholarship as evidenced by cumulative grade point average; permission of the Department Head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Theoretical Issues in Accounting. Summer 1967.

(4 q. hrs.)

An analysis of accounting concepts, viewed in an ideal framework.

513. Contemporary Issues in Marketing. Summer 1968.

(4 q. hrs.)

Current issues involved in the delivery of a standard of living. Reading and reporting on the literature of the field will be expected.

516. Contemporary Issues in Management. Summer 1969.

(4 q. hrs.)

An investigation of the contemporary issues in management. Current problems in the various areas of management and a study of new management techniques.

519. Foundations of American Business. Summer 1969.

(4 q. hrs.)

The historical development of American business and industry. The evolution of business practices and principles.

520. Practicum in Data Processing. Summer 1967, 1968.

(4 q. hrs.)

The nature and function of modern, high speed information handling equipment. Includes unit record and electronic computers. Problems on the equipment, with special emphasis on the development of teaching materials.

Not open to students with credit in Management 330 or 331.

570 (544). Foundations in Business Education. Summer 1967.

(4 q. hrs.)

The evolution of the business curriculum; large and small high schools. Philosophies and objectives of business education are appraised in terms of business occupational requirements.

572 (545). Problems in Business Education. Summer 1969.
(4 q. hrs.)

Current business education problems, such as supervision, administration, curriculum, equipment, standards, viewpoints of national leaders; problems growing out of the particular needs and interests of the students.

573 (543). Measurement and Evaluation in Business Education. Summer 1968. (4 q. hrs.)

Evaluation and development of guidance materials in business education. Testing techniques and the construction of tests, statistical procedures necessary for test interpretation and use.

574. Improvement of Instruction in Bookkeeping and General Business Subjects. Summer 1969. (4 q. hrs.)

An examination of methods and techniques in the teaching of bookkeeping, record keeping, and general business courses. Development of materials for use in teaching these subjects. Contributions of research and needed research are considered.

576. Improvement of Instruction in Shorthand and Secretarial Skills. Summer 1968. (4 q. hrs.)

To acquaint business teachers with current problems and methods in teaching shorthand and secretarial skill courses. The contributions of research, approaches to needed research, and research methods. Examination of modern instructional media.

578. Improvement of Instruction in Typewriting and Office Practice. Summer 1967. (4 q. hrs.)

To acquaint business teachers with current problems and methods in teaching typewriter-related skills and activities. The contributions of research, approaches to needed research, and research methods. Examination of modern instructional media.

595. Thesis. (4 q. hrs.)

Study and investigation in business education for students electing Plan A for the master's degree.

MANAGEMENT

Professor: W. E. Green (Head)

Assistant Professors: Drew, Holley, Lahey, Spaniol

Instructors: Meier, Psimitis

Faculty Assistant: Fines

140. Business Mathematics. Fall and Spring. (4 q. hrs.)

Basic applications of arithmetic in the business world, percentage in business, elementary algebra in business, interest, basic problems in business ownership, installment buying, and statistics in business.

141. Business Correspondence. Every quarter. (4 q. hrs.)

The construction of effective letters; application letters, sales letters, credit letters, collection letters, adjustment letters, form letters, and business reports. Practice in writing these letters.

Prerequisite: Business Education 110 or equivalent.

142. Introduction to Business. Every quarter. (4 q. hrs.)

The American business scene; business and society; the nature of business; production, distribution, finance; the business manager as a directing force, his obligations and objectives; career opportunities in business.

330. Data Processing for Business. Every quarter. (4 q. hrs.)

The nature and function of modern, high speed information handling (data processing) equipment. Includes punched card units and high speed electronic computers with stored program capabilities. Problems on the computers.

331. Data Processing Systems for Business. Every quarter. (4 q. hrs.)

The structure and development of manual, mechanical, and electronic information handling systems. Unit record and computer systems. Basic operational procedures plus the analysis and design of new systems.

Prerequisite: Management 330.

346. Business Law. Every quarter. (4 q. hrs.)

Introduction to law; contracts; agency and employment commercial papers; personal property and bailments.

347. Business Law. Winter and Spring. (4 q. hrs.)

Sales of goods; partnerships; corporations; real property and leases; insurance; security devices; bankruptcy; trusts and estates.

Prerequisite: Management 346.

351 (451). Principles of Management. Every quarter. (4 q. hrs.)

Fundamentals of management; objectives, policies, functions, executive leadership, organization structure and morale; operational procedure and control.

380. Investments. Fall and Spring. (4 q. hrs.)

Classification and analysis of the contractual features of securities; the mechanics of investment; determination of the qualities of a security; selection of securities for portfolios. Problems of individual and institutional investors.

Prerequisite: Accounting 230, Economics 255, or permission of the instructor.

381 (481). Business Statistics I. Fall and Winter. (4 q. hrs.)

Provides a working knowledge of the statistical tools used in analyzing business problems. Fundamental phases of statistical technique, as graphic presentations, averages, index numbers, sampling error, and simple correlation.

383. Business Report Writing. Every quarter. (4 q. hrs.)

The organization and preparation of reports of the types used in education, business, and government. Techniques of collecting, interpreting, and presenting information. Study of actual reports.

384. Business Statistics II. Winter. (4 q. hrs.)

Extension of the range of topics covered in Business Statistics I to include statistical correlation, testing of hypothesis, index construction, analysis of time series data, and practical application of statistics to business situations.

Prerequisite: Management 381 (481).

430. Data Processing Laboratory. Every quarter. (4 q. hrs.)

Experiences in the processing of information by the use of punched card equipment and computer. Use of the card punch, sorter, reproducer, accounting machine, printer, and the electronic computer.

Prerequisite: Management 330 and consent of the Head of the Department of Management.

434. Production Management. Winter and Spring. (4 q. hrs.)

Management of manufacturing enterprises. Includes plant location, plant layout, production processes, and production control systems.

Prerequisite: Management 351.

435. Motion and Time Study. Spring. (4 q. hrs.)

A study of work methods, design and principles of motion and time economy.

Prerequisite: Management 351, 434.

436. Managerial Decision Making. Fall. (4 q. hrs.)

Decision making in a simulated, dynamic, competitive industry. A computer program is used to simulate an industry. Teams of students act as companies making decisions regarding price, research and development, advertising production levels and others.

Prerequisite: Management 351.

437. Job Evaluation. Winter. (4 q. hrs.)

Analysis of the methods and techniques used in evaluating jobs within an organization. Problems of wage and salary structure.

Prerequisite: Management 351, 452.

438. Labor Law. Winter. (4 q. hrs.)

A study of early doctrines, structure and purpose of labor combinations, and legal problems arising from activities of labor organization in industrial controversies. Jurisdiction over disputes, remedies available, regulatory labor legislation, management's responsibility under the law, and resultant changes in management's authority.

Prerequisite: Management: 347.

439. Real Estate. Spring. (4 q. hrs.)

A study of theory and practice in real estate, with social and economic implications.

Prerequisite: Management 347.

445. Collective Bargaining. Fall (4 q. hrs.)

Deals with the role played by management and labor representatives in the collective bargaining process as revealed by analysis of a series of actual cases in diverse industries. Specific attention is devoted to a consideration of the factors making for industrial conflict and the means of their amicable settlement.

Prerequisite: Management 347.

490. Internship in Management. Arr. (4 q. hrs.)

Employment experience in a phase of management for one quarter, in a firm approved by the Head of the Department of Management, to be agreed upon by the firm and the Department Head.

Prerequisite: Permission of the Department Head and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**452. Personnel Management.** Winter and Spring. (4 q. hrs.)

Objectives, functions, and organization of a typical personnel program. Problems in personnel administration.

453. Office Management. Fall and Spring. (4 q. hrs.)

Duties and responsibilities of the office manager: selection, training, pay and promotion of office employees; controlling office expense; flow of work; purchase and use of office equipment; physical factors; report writing.

458. Case Problems in Business Law. Spring. (4 q. hrs.)

This course assumes that the student has a knowledge and background of the theory of business law. The solution of case problems as applied to the various topics in the field of business law.

Prerequisite: Management 347 or the equivalent.

480. Principles of Insurance. Fall and Spring. (4 q. hrs.)

A survey of the risks to which man and property are subject and the elimination of the financial consequences of these risks through insurance coverages. Includes life, property, and casualty insurance.

482. Corporation Finance. Winter and Spring. (4 q. hrs.)

The corporation in a possible life cycle of organization, operation, and reorganization or failure; the various forms of corporate securities; financing the corporation management of income.

Prerequisite: Accounting 232 and Economics 256, or the equivalent.

484. Commercial Banking. Winter. (4 q. hrs.)

The organization and management of commercial banks. Functions, departments, personnel, policies. The contribution of the modern commercial bank to the community.

Prerequisite: Accounting 230, Economics 255.

498. Readings in Management. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of management selected in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. The Corporation in Society. Summer. (4 q. hrs.)

A course for non-business majors to give an understanding of the corporate form of organization; the genesis of the corporate idea and the adaptation of this idea to the requirements of modern society; implications for the individual and society.

Credit applicable only to the Group III requirements for the degree M.S. in Ed.

MARKETING

Professor: Fagan (Head)

Assistant Professor: Gover

Instructors: Basgall, Kilgos, O. M. White

247. Principles of Marketing. Every quarter. (4 q. hrs.)

Current marketing channels; marketing functions and institutions; methods used in marketing agricultural products, raw materials and manufactured goods.

248. Principles of Salesmanship. Every quarter. (4 q. hrs.)

The psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling.

249. Principles of Retailing. Every quarter. (4 q. hrs.)

The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work, business forecasting.

250. Principles of Advertising. Every quarter. (4 q. hrs.)

Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; labels; trademarks; slogans; campaigns.

370. Credit Management. Every quarter. (4 q. hrs.)

Consumer and commercial credit and collection practices and policies in business organizations. Organization and operation of credit departments.

Prerequisite: Accounting 230, Economics 256, or permission of the instructor.

449. International Marketing. Winter. (4 q. hrs.)

An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations.

Prerequisite: Marketing 247 and Economics 256.

490. Internship in Marketing. Arr. (4 q. hrs.)

Employment experience in some phase of marketing for one quarter, in a firm approved by the Head of the Department of Marketing, to be agreed upon by the firm and the Department Head.

Prerequisite: Permission of the Department Head and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**476. Traffic Management.** Spring. (4 q. hrs.)

Transportation facilities and their historical development; comparison of alternative services; transport costs, rates and routes; shipping documents. The scope of traffic management; organization and operation of traffic departments.

Prerequisite: Marketing 247 and Management 347.

486. Marketing Research. Fall and Spring. (4 q. hrs.)

A basic course. Topics covered are: nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report, follow-up, and evaluation of research process. Problems.

Prerequisite: Marketing 247.

487. Market Management Problems. Winter and Spring.
(4 q. hrs.)

Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Emphasis on the case method in problem analysis.

Prerequisite: Accounting 232 and Marketing 247.

498. Readings in Marketing. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of marketing selected in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department.

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HEALTH EDUCATION

Professor: Riebe

Associate Professors: J. J. Richardson (Head), Sexton

Assistant Professors: M. E. Green, V. C. Smith, G. E. Wilson

Instructors: Herauf, Parcel

UNDERGRADUATE COURSES

120. Personal Hygiene. Every quarter. (4 q. hrs.)

Personal hygiene for young adults in college: emotional problems; sex, marriage, parenthood; nutrition; fatigue and rest; alcohol and tobacco; immunization; related personal and public health problems.

227. Health Education in Elementary, Junior, and Senior High Schools. Every quarter. (4 q. hrs.)

Organic functions and problems of effective healthful living.

Prerequisite: *Health Education 120.*

320. School and Community Health Problems.

Every quarter. (4 q. hrs.)

A survey of the school health program with particular emphasis on the teacher's role in healthful school living, health services, and health instruction. School-community relationships are emphasized as well as those between teaching personnel and other responsible persons.

Prerequisite: *Health Education 120 or its equivalent.*

330. Safety Education. Fall and Winter. (4 q. hrs.)

Safety problems of modern life in the home, school, during recreation, on the highway, and at work.

331. Introduction to Driver Education. Fall and Spring.
(4 q. hrs.)

The first of two courses designed to prepare teachers of driver education for secondary schools; laboratory work with beginning drivers.

Prerequisite: *Student must have (1) valid driver's license and (2) a safe driving record.*

332. Advanced Driver Education and Traffic Safety.
Fall and Spring. (4 q. hrs.)

A continuation of Health Education 331, with special attention to administration, organization, finance, adult education and evaluation of the school driver education program.

Prerequisite: *Health Education 331 or concurrent enrollment in this course.*

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a student whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

501. Current Health Problems. Fall. (4 q. hrs.)

An epidemiological investigation of the cause, nature, extent, and trends in programming current health problems, including chronic and degenerative diseases, mental illness; traumatic injury; radiological hazards and contamination; communicable diseases; and nutritional deficiencies.

PHYSICAL EDUCATION FOR MEN

Professors: R. A. Carey, Groves, Masley, O'Brien (Head)

Associate Professors: Hussey, Lowell, Riordan

Assistant Professors: Buckellew, Darling, Elmore, Eudeikis, Katsimpalis, McCabe, Pinther, Teller, Twenter, Woodall

Instructors: Biggers, Bissell, Chizevsky, R. E. Edwards, Newcomb, Paap, Padovan, Vaughan

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week during each quarter of residence unless this requirement is modified by the University Physician. It is the responsibility of the student, not his adviser, to see that this requirement is met, and to select his own courses for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

It is recommended that the student select a program of activities which includes a minimum of two courses in team games, two courses in individual activities, and one course in dance. No course may be repeated for credit without permission of the chairman of the Physical Education Division.

Prior to entering the University, each student is required to have a physical examination. When abnormalities and weaknesses are disclosed by the examination, corrective exercise and restricted activities are prescribed. The Health Service follows up cases in need of medical attention.

Equipment. Each student who takes physical education is required to have rubber-soled gymnastic shoes. All other equipment will be furnished by the University. Each student is required to follow regulations in the use of this equipment. Regulations for the use of the equipment will be given at the first class period and will be posted in the locker room.

For a statement of fees for lock, see page 45.

SERVICE COURSES

(The credit in service courses is nominal credit.)

Service courses in physical education are numbered to indicate the level of the work. Courses in the 100 series are intended for beginners; majors and minors in physical education should register for service courses which will serve as prerequisites for the professional. "Technique of Teaching" courses. Veterans who are majors or minors in physical education are not exempted from service physical education or Health Education 120 if these courses are prerequisite to other professional courses, unless evidence is presented that the specific content of these courses has been covered in military service.

- 002. **Baseball (Intercollegiate Team Participation).**
Spring. (1 q. hr.)
- 003. **Basketball (Intercollegiate Team Participation).**
Winter. (1 q. hr.)
- 005. **Soccer (Intercollegiate Team Participation).**
Fall. (1 q. hr.)
- 009. **Football (Intercollegiate Team Participation).**
Fall. (1 q. hr.)
- 012. **Golf (Intercollegiate Team Participation).**
Spring. (1 q. hr.)
- 013. **Gymnastics (Intercollegiate Team Participation).**
Winter and Spring. (1 q. hr.)
- 014. **Tennis (Intercollegiate Team Participation).**
Spring. (1 q. hr.)
- 015. **Wrestling (Intercollegiate Team Participation).**
Winter. (1 q. hr.)
- 016. **Cross Country and Track (Intercollegiate Team Participation).** Fall, Winter and Spring. (1 q. hr.)
- 018. **Swimming (Intercollegiate Team Participation).**
Winter. (1 q. hr.)
- 100. **Basic Physical Education.** Fall and Winter. (1 q. hr.)
Activities to improve the general fitness and motor ability as related to individual needs.
- 101. **Prescribed Activities.** Every quarter. (1 q. hr.)

Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.

103. **Basketball** (Beginning). Every quarter. (1 q. hr.)
104. **Recreational Team Games**. (Omitted 1967-68.) (1 q. hr.)
105. **Soccer** (Beginning). Fall. (1 q. hr.)
106. **Softball** (Beginning). Spring. (1 q. hr.)
107. **Touch Football** (Beginning). Fall. (1 q. hr.)
108. **Volleyball** (Beginning). Every quarter. (1 q. hr.)
110. **Archery** (Beginning). Fall and Spring. (1 q. hr.)
111. **Badminton** (Beginning). Every quarter. (1 q. hr.)
Open to both men and women.
112. **Golf** (Beginning). Fall and Spring. (1 q. hr.)
Open to both men and women.
113. **Gymnastics Apparatus** (Beginning). Winter and Spring.
(1 q. hr.)
114. **Tennis** (Beginning). Fall and Spring. (1 q. hr.)
Open to both men and women.
115. **Wrestling** (Beginning). Winter. (1 q. hr.)
116. **Track** (Beginning). Spring. (1 q. hr.)
117. **Stunts and Tumbling**. Winter. (1 q. hr.)
119. **Bowling** (Beginning). Winter and Spring. (1 q. hr.)
Open to both men and women.
- 140 (118). **Swimming** (Beginning). Every quarter. (1 q. hr.)
For beginning swimmers only. Persons able to swim the width of a 45-foot pool should enroll in P.E.M. 141.
141. **Intermediate Swimming**. Every quarter. (1 q. hr.)
142. **Senior Life Saving**. Winter. (1 q. hr.)
Intermediate swimming or demonstrate level of ability by passing a pre-test.
Prerequisite: P.E.M. 141.
143. **Competitive Swimming and Diving**. Fall. (1 q. hr.)
Prerequisite: P.E.M. 141. Intermediate swimming or demonstrate level of ability by passing a pre-test.

144. Scuba and Snorkel Diving. Spring. (1 q. hr.)

Prerequisite: P.E.M. 141 or demonstrate level of ability by passing a pre-test.

145. Water Polo. Winter. (1 q. hr.)

Prerequisite: A student must demonstrate a level of swimming ability equal to skills learned in any other course offered in swimming except P.E.M. 140.

146. Water Safety Instruction. Spring. (1 q. hr.)

Prerequisite: A student must have passed P.E.M. 142 or have a recently earned Senior Life Saving Certificate issued by the American Red Cross.

160. Weight Training (Beginning). Fall, Winter. (1 q. hr.)**161. Weight Training (Intermediate).** Winter and Spring.
(1 q. hr.)

Prerequisite: P.E.M. 160 or demonstrate level of ability by passing pre-test.

162. Handball. Every quarter. (Omitted 1967-68.) (1 q. hr.)**164. Rifle and Pistol.** Every quarter. (1 q. hr.)**190. Folk and Square Dancing.** Every quarter. (1 q. hr.)
See Physical Education (Women).**191. Modern Dance (Beginning).** Every quarter. (1 q. hr.)
See Physical Education (Women).**192. Social Dance.** Every quarter. (1 q. hr.)
See Physical Education (Women).**291. Modern Dance (Intermediate).** Every quarter. (1 q. hr.)
See Physical Education (Women).**391. Modern Dance (Composition).** Spring. (1 q. hr.)
See Physical Education (Women).**PROFESSIONAL COURSES****(Undergraduate Courses)****120. Basic Activities for Elementary and Secondary Schools.**
Every quarter. (4 q. hrs.)

Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.

- 121. Elementary Tumbling, Stunts, and Pyramids.**
Winter and Spring. (4 q. hrs.)
Basic tumbling skills; vaulting; trampoline.
- 131. First Aid and Safety Education.**
See Physical Education (Women).
- 132. Leadership in Recreation.**
See Physical Education (Women).
- 150. Introduction to Physical Education.** Every quarter.
(4 q. hrs.)
General scope, purpose, history, growth and development of physical education.
- 203. Technique of Teaching Basketball.** Every quarter.
(2 q. hrs.)
Prerequisite: Physical Education 103 or evidence of a level of competence in the specific skill necessary for teaching.
- 204. Technique of Teaching Recreational Team Games.**
(Omitted 1967-68.) (2 q. hrs.)
Prerequisite: Physical Education 104 or evidence of a level of competence in the specific skill necessary for teaching.
- 205. Technique of Teaching Soccer.** Fall. (2 q. hrs.)
Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.
- 206. Techniques of Teaching Softball.** Spring. (2 q. hrs.)
Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.
- 207. Technique of Teaching Touch Football.** Fall. (2 q. hrs.)
Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.
- 208. Technique of Teaching Volleyball.** Every quarter.
(2 q. hrs.)
Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.
- 210. Technique of Teaching Archery.** Fall and Spring.
(2 q. hrs.)
Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.

- 211. Technique of Teaching Badminton.** Every quarter.
(2 q. hrs.)

Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.

- 212. Technique of Teaching Golf.** Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.

- 213. Technique of Teaching Gymnastics Apparatus.**

Winter and Spring. (2 q. hrs.)

Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.

- 214. Technique of Teaching Tennis.** Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.

- 215. Technique of Teaching Wrestling.** Winter. (2 q. hrs.)

Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.

- 217. Technique of Teaching Stunts and Tumbling.**

Winter. (2 q. hrs.)

Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

- 228. Organization and Administration of Playgrounds.**

Spring. (4 q. hrs.)

Administrative problems associated with the operation of playgrounds; personnel; publicity; financing; legal aspects; programming; operation of seasonal type playgrounds.

Open to both men and women.

- 235. Theory of Prescribed Exercise.**

See Physical Education (Women).

- 240 (218). Technique of Teaching Swimming.**

Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 140, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.

- 244. Kinesiology.** Every quarter. (4 q. hrs.)

Laws of physics applied to human motion; joint movements;

motion of muscle groups. Analysis of fundamental body movements and the adaptation of gymnastic exercises to posture training and sports activities.

Prerequisite: Zoology 225. Open to men and women.

252. Activity Needs and Interests of the Elementary School Child.

See Physical Education (Women).

336. Music in Relation to the Dance.

See Physical Education (Women).

340. Organization of Grade Level Activities and Methods of Teaching the Activity in Physical Education.

Winter and Spring. (4 q. hrs.)

Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.

Prerequisite: Four quarter hours of physical education activities at the 200 level; admission to teacher education.

347. Basketball Coaching. Fall and Spring. (4 q. hrs.)

Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.

348. Football Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; strategy.

349. Track and Field Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of running and starting; the pole vault; shot; discus; high and broad jumps; javelin; hurdles. Organization of track meets. Study of rules and strategy.

350. Baseball Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.

351. Camping. Spring. (4 q. hrs.)

Organization and administration of camps including program planning; counselor problems; camp policies.

357. Golf Coaching. (Omitted 1967-68.) (4 q. hrs.)

Fundamentals of golf including individual and team play; conduct of tournaments; care of equipment; maintenance of golf courses.

358. Gymnastics Coaching. (Omitted 1967-68.) (4 q. hrs.)

Fundamentals of heavy apparatus; rings, trampoline; free exercise.

359. Tennis Coaching. (Omitted 1967-68.) (4 q. hrs.)

Fundamentals of individual and team play; team management; conduct of clinics and tournaments; care of courts and equipment; as applied to varsity and recreational tennis.

360. Coaching of Wrestling. (Omitted 1967-68.) (4 q. hrs.)

The theory and application of wrestling maneuvers. The rules; strategy; conditioning; and training.

451. History and Principles of Physical Education.

Every quarter. (4 q. hrs.)

The historical background of physical education; relationship of physical education to general education; physiological, psychological and sociological principles related to physical education.

452. Physical Education Administration and Supervision.

Every quarter. (4 q. hrs.)

Responsibilities of an administrator in program planning; construction of facilities; purchase and maintenance of equipment; upkeep of gymnasiums and play-fields; interschool and intramural athletics.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**461. The Prevention and Care of Athletic Injuries.**

Winter and Spring. (4 q. hrs.)

Athletic injury statistics; primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved; taping, padding, and bracing new and recurrent injuries.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Introduction to Graduate Study in Physical Education.

Fall. (4 q. hrs.)

A critical review of selected studies in the literature of physical education. Evaluation of the literature; study of problems confronting the profession; techniques employed in the historical, philosophical, survey, and experimental methods of research.

Open to both men and women.

520 (495). Course of Study Development in Physical Education. Spring. (4 q. hrs.)

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

Open to both men and women.

521 (475). Administration of Interschool Athletics.

Winter. (4 q. hrs.)

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

522 (470). Organization and Administration of Intramural Athletics. Fall. (4 q. hrs.)

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs; records; point systems; and awards.

Open to both men and women.

523. Physiology of Exercise. Fall. (4 q. hrs.)

A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory and muscular systems.

Prerequisite: Zoology 348.

Open to both men and women.

528. The Organization and Administration of Community Recreation. Spring. (4 q. hrs.)

Recent trends in organizing and administering of recreation on federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures.

Open to both men and women.

530. Advanced Administration of Physical Education in Schools. Winter. (4 q. hrs.)

Legal responsibilities and liability; construction and maintenance of equipment and facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.

Open to both men and women.

550. Sports and Physical Education in American Society. Fall and Winter. (4 q. hrs.)

A course designed for the non-major of physical education to give the student an appreciation of the contributions of physical edu-

cation and athletics in our American culture, and the role of physical education in early civilization.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Experimental Laboratory Research in Physical Education. Winter. (4 q. hrs.)

Methods and Techniques in research in physical education and related fields.

Open to both men and women.

595. Thesis. (4 q. hrs.)

PHYSICAL EDUCATION FOR WOMEN

Professors: Hart, Snow (Head)

Associate Professors: Daves, Flower

Assistant Professors: Bally, A. R. Elliott, Riley

Instructors: Bovinet, Fuller, Gerstenberger, N. C. Green, Metcalf, Moody, Nies, Yu

Faculty Assistants: T. A. Hopkins, Bennett

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week unless this requirement is modified by the University Physician. Before completing the six terms of required physical education, the student shall have taken:

3 courses in sports (team and individual)

2 courses in dance

1 course in fundamentals

It is the responsibility of the student, not her adviser, to see that this requirement is observed, and to select her own courses, and sections of those courses, for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed. No course shall be repeated for credit without permission of the head of the Physical Education Department. Upperclassmen are encouraged to elect courses that interest them.

SERVICE COURSES

(The credit in service courses is nominal credit.)

098. Courses for Individual Needs. Every quarter. (1 q. hr.)

Courses in an adapted form of activity are offered for students with individual problems.

172. Basketball. Winter. (1 q. hr.)

173. **Field Hockey.** Fall. (1 q. hr.)
Required of all majors.
174. **Soccer.** Fall. (1 q. hr.)
175. **Softball.** Spring. (1 q. hr.)
176. **Speedball.** Fall and Spring. (1 q. hr.)
Required of all majors.
177. **Volleyball.** Fall, Winter and Spring. (1 q. hr.)
180. **Archery.** Fall, Spring and Summer. (1 q. hr.)
Required of all majors.
181. **Badminton.** Fall, Winter and Spring. (1 q. hr.)
Required of all majors.
182. **Bowling.** Fall, Winter, and Spring. (1 q. hr.)
Required of all majors.
183. **Golf.** Fall, Spring, and Summer. (1 q. hr.)
Required of all majors.
184. **Recreational Games.** (Omitted 1967-68.) (1 q. hr.)
185. **Stunts and Tumbling.** Fall and Winter. (1 q. hr.)
Required of all majors.
186. **Swimming.** Every quarter. (1 q. hr.)
Required of all majors.
187. **Tennis.** Fall, Spring, and Summer. (1 q. hr.)
Required of all majors.
188. **Fencing.** Winter and Spring. (1 q. hr.)
190. **Folk and Square Dance.** Every quarter. (1 q. hr.)
Open to both men and women. Required of all majors.
191. **Modern Dance.** Fall, Winter, and Spring. (1 q. hr.)
Open to both men and women. Required of all majors.

192. Ballroom Dance. Every quarter. (1 q. hr.)

Open to both men and women. Required of all majors.

194. Track and Field. Spring. (1 q. hr.)

For physical education majors and minors only, or permission of the instructor. Required of all majors.

196. Officiating. Fall. (1 q. hr.)

For physical education majors and minors only. Required of all majors.

197. Officiating. Winter. (1 q. hr.)

For physical education majors and minors only. Required of all majors.

199. Fundamentals. Every quarter. (1 q. hr.)

Understandings and principles of good body mechanics as applied to everyday life. Awareness of tensions, balance, use of muscles in good and poor body mechanics, posture work. Techniques for relaxation.

Required of all majors.

272. Basketball. (Intermediate). Winter. (1 q. hr.)

Prerequisite: Physical Education 172 or permission of the instructor.

273. Field Hockey. (Intermediate). Fall. (1 q. hr.)

Prerequisite: Physical Education 173 or permission of the instructor.

277. Volleyball. (Intermediate). Winter and Spring. (1 q. hr.)

Prerequisite: Physical Education 177 or permission of the instructor.

281. Badminton (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 181 or permission of the instructor.

283. Golf (Intermediate). Fall, Spring and Summer. (1 q. hr.)

Prerequisite: Physical Education 183 or permission of the instructor.

286. Swimming (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 186 or permission of the instructor.

287. Tennis (Intermediate). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 187 or permission of the instructor.

291. Modern Dance (Intermediate). Every quarter. (1 q. hr.)
Prerequisite: Physical Education 191 or permission of the instructor. Required of all majors.

315. Games for the Elementary School. Winter and Spring.
(1 q. hr.)
Prerequisite: Physical Education 130. For physical education majors only. Required of all majors.

383. Golf (Advanced). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 283 or permission of the instructor.

386. Swimming (Advanced). Spring. (1 q. hr.)
Prerequisite: Physical Education 286 or permission of the instructor.

387. Tennis (Advanced). Fall, Spring and Summer. (1 q. hr.)
Prerequisite: Physical Education 287 or permission of the instructor.

391. Modern Dance (Composition). Spring. (1 q. hr.)
This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions.

Prerequisite: Physical Education 291, or permission of instructor. Open to both men and women. Required of all majors.

392. Rhythm Analysis. Winter. (1 q. hr.)
An analysis of, and practice in, the rhythm factors in movement with special emphasis on the basic dance steps and skills of the folk, square, and social dance forms.

Prerequisite: Physical Education 391. For physical education majors and minors only, or permission of the instructor. Required of all majors.

PROFESSIONAL COURSES

(Undergraduate Courses)

130. Plays, Games and Activities of Low Organizations.
Fall, Winter and Summer. (4 q. hrs.)
Games, stunts, athletic and rhythmic activities for the elemen-

tary grade children as basic to the high school activities.

Open to both men and women.

131. First Aid and Safety Education. Winter and Spring.
(4 q. hrs.)

This course consists of (1) Regulation American Red Cross First Aid methods and (2) Safety in Schools, particularly in physical education activities.

Open to both men and women.

132. Leadership in Recreation. Spring. (4 q. hrs.)

A study of basic philosophy of recreation, of leadership qualities, and of areas, activities and interests in the field of recreation; practical experience in party planning and administration, camping, and outdoor cookery.

Open to both men and women.

228. Organization and Administration of Playgrounds.
Spring. (4 q. hrs.)

See Physical Education (Men).

233. Technique of Team Sports—Soccer, Speedball, and Hockey. Fall. (4 q. hrs.)

An analysis of the basic techniques of hockey, soccer, speedball. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

234. Technique of Team Sports—Basketball, Volleyball, and Softball. Winter. (4 q. hrs.)

An analysis of the basic techniques of basketball, volleyball, and softball. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

235. Theory of Prescribed Exercise. Every quarter. (4 q. hrs.)

Preventive and modified activities for the physically handicapped child. Theory and practice of an orthopedic examination are included.

Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

244. Kinesiology. (4 q. hrs.)

See Physical Education (Men.)

Prerequisite: Zoology 225.

252. Activity Needs and Interests of the Elementary School Child. Spring and Summer. (4 q. hrs.)

The needs in terms of growth, development, and adjustment of children of the elementary grades. How to choose activities that will contribute most to the satisfaction of these needs.

Open to both men and women. Prerequisite: Physical Education 130 or permission of instructor.

300. Advanced and Instructor's First Aid. Spring. (4 q. hrs.)

This course includes (1) Advanced First Aid procedures as organized by the American Red Cross and (2) Methods and materials of teaching First Aid.

Open to both men and women. Prerequisite: Physical Education 131 or Elementary Red Cross certificate.

336. Problems in Developing Programs in Modern and Folk Dance. Winter and Summer. (4 q. hrs.)

Principles underlying the modern dance art form. Structure and ethnic roots of folk. Materials for course planning, teaching, and accompaniment.

Open to both men and women. Prerequisite: Physical Education 191, 291, 391 and 190.

345. Physical Education Activities for the Elementary School. (Omitted 1967-68.) (4 q. hrs.)

Guidance in analyzing the students' own school situations. Methods and materials for planning the physical education program.

346. Course Planning and Organization of Square and Social Dance. Fall. (4 q. hrs.)

Theory and methods for Junior and Senior High Schools basic to course planning and teaching. Analysis of music for dance and dance skills. Survey of literature.

Open to both men and women. Prerequisite: Physical Education 190 and 192.

351. Camping. (4 q. hrs.)

See Physical Education (Men).

353. Technique of Individual Sports—Archery, Badminton, Tennis, and Stunts. Spring and Summer. (4 q. hrs.)

An analysis of the basic techniques of archery, badminton, tennis, and stunts. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

354. Physical Education for High School Girls.

(Omitted 1967-68.) (4 q. hrs.)

Methods of presenting physical education activities on the Junior and Senior High School level. Course is designed for the teacher not trained in Physical Education. No credit toward a major in physical education.

355. Field Work in Recreation. (Omitted 1967-68.) (4 q. hrs.)

Students are assigned to a public or private agency in the community for the purpose of organizing and conducting specific activities or groups under supervision.

Open to both men and women.

356. Outing Crafts. Summer. (4 q. hrs.)

A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered.

Open to both men and women.

360. Introduction to Elementary School Physical Education.

Fall, Winter, Spring. (2 q. hrs.)

A study of physical education as it relates to the total education of the elementary school child. Emphasis is on the developmental approach to physical education.

361. Physical Education Activities for Elementary Schools.

Fall. (4 q. hrs.)

A study of body mechanics and games (exclusive of sports, rhythms, stunts, apparatus, and tumbling). Emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

362. Rhythmical Activities for Elementary Schools.

Spring. (4 q. hrs.)

A study of dance and creative rhythms in the elementary school curriculum. Emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

363. Tumbling and Apparatus Activities for Elementary Schools. Winter. (4 q. hrs.)

A study of tumbling and apparatus in the elementary school curriculum. Analysis of and practice in spotting techniques in mat and apparatus work is stressed.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

410 (451). History and Principles of Physical Education.
Fall and Winter. (4 q. hrs.)

The study of physical education from ancient to modern times, as it has met the needs of the people of each generation. An interpretation of the objectives of physical education in accordance with the objectives of general education in modern society.

411 (456). Organization and Administration of Physical Education. Winter, Spring, and Summer. (4 q. hrs.)

Study of effective procedures in organization and administration of the Physical Education program. Students prepare a curriculum on the elementary, junior or senior high school level based upon principles studied in Physical Education 410.

Prerequisite: Physical Education 410.

413 (458). Objectives of Physical Education and Administration of the Program. Spring and Summer. (4 q. hrs.)

This course is intended for students in the P.E. minor and the Physical Education concentration in the elementary curriculum.

Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. Evaluation of Physical Education Activities.
Fall and Spring. (4 q. hrs.)

Selection and administration of physical measurements and written tests commonly used in physical education.

Open to both men and women.

457. Analysis of Human Motion. Summer. (4 q. hrs.)

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Includes specific analysis of technique involved in the execution of sports, skills and of basic body movement.

Prerequisite: Physical Education 244. Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Introduction to Graduate Study in Physical Education.
Fall. (4 q. hrs.)

See Physical Education (Men).

510. Supervision of Physical Education. Winter. (4 q. hrs.)

Techniques of supervision of physical education in the elementary and secondary school; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.

Open to both men and women.

512. Application of Psychology to Physical Education.

Spring. (4 q. hrs.)

A study of psychological principles, laws of learning, and their application to physical education.

Open to both men and women.

513. Planning the Recreation Program. (Omitted 1967-68.)

(4 q. hrs.)

Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreational potential of a community; formulation of plans for meeting various recreational needs.

Open to both men and women.

514 (459). Current Trends in the Teaching of Physical Education in the Elementary and Junior High School.

Fall. (4 q. hrs.)

Materials, organization and program of physical education in the elementary and junior high school. Integration of physical education with general education.

Prerequisite: Physical Education 252 or equivalent. Open to both men and women.

515. Physical Education—An Aesthetic Approach.

Summer. (4 q. hrs.)

Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

Open to both men and women.

519. Growth and Development Through Physical Education.

(Omitted 1967-68.) (4 q. hrs.)

Survey of the physical, social, emotional, and intellectual growth and development of children and adolescents as these relate to curriculum planning for physical education.

Open to both men and women.

520 (495). Course of Study Development in Physical Education. Spring. (4 q. hrs.)

See Physical Education (Men).

528. The Organization and Administration of Community Recreation. Spring. (4 q. hrs.)

See Physical Education (Men).

551. Historical Development of Dance. Fall. (4 q. hrs.)

A study of the relationship of dance to the other arts. Emphasis is given to the socio-cultural implications of the arts throughout the ages of mankind and the specific role of dance in this development.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Advanced Theory and Analysis of Team Sports.

(Omitted 1967-68.) (4 q. hrs.)

Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the Physical Education Program.

Prerequisite: Proficiency in the areas studied.

561. Advanced Theory and Analysis of Individual Sports.

(Omitted 1967-68.) (4 q. hrs.)

Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the Physical Education Program.

Prerequisite: Proficiency in the areas studied.

562. Problems in the Administration of Girls' Physical Education. (Omitted 1967-68.) (4 q. hrs.)

Provides an opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education. Problems in the administrative field will be studied.

563. Philosophy of Physical Education. Winter. (4 q. hrs.)

Study of principles of physical education with application to current problems in the field.

Open to both men and women.

595. Thesis. (4 q. hrs.)

**SCHOOL OF
HOME ECONOMICS**

HOME ECONOMICS

Professor: M. R. Swope (Head)

Assistant Professors: Bouldin, Devinney, Haughton, Jorgenson, Starck

Instructors: Buch, Rittenhouse

Faculty Assistant: Strader

Home Economics 210, 211, 212, 310, 320, 401, 420, 430 have two lectures and two laboratory periods per week; Home Economics 101, 201, 301 meet eight periods per week; all other Home Economics courses meet four periods per week.

UNDERGRADUATE COURSES

101. Principles of Clothing Construction.

Every quarter. (4 q. hrs.)

A study of the principles of simple construction processes; interpretation and use of commercial patterns.

102. Nutrition. Fall, Winter and Summer. (4 q. hrs.)

The principles of human nutrition and their application to everyday nutritional problems; the relation of good food habits to the selection of an adequate dietary.

For majors only. (See Home Economics 303 for non-majors.)

131. Clothing Selection. Every quarter. (4 q. hrs.)

An introduction to consumer buying of ready-to-wear clothing; includes the study of fabrics, construction features, and design and color principles.

201. Advanced Clothing Construction. Every quarter. (4 q. hrs.)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting.

Prerequisite: Home Economics 101 or consent of instructor.

210. Principles of Food Preparation. Fall. (4 q. hrs.)

A study of the scientific principles and techniques underlying food preparation with special emphasis on physical and chemical changes involved, and the evaluation of a standard product.

Prerequisite: Chemistry 153, 154, 155 or consent of instructor.

211. Principles of Food Preparation, Continued. Winter. (4 q. hrs.)

Continued study of the scientific principles and techniques underlying food preparation.

Prerequisite: Home Economics 210.

212 (204). Studies in Experimental Foods.

Spring. (4 q. hrs.)

Physical and chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 211.

230. Household Equipment. Every quarter. (4 q. hrs.)

Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.

231. Sociology of Clothing. Fall and Winter. (2 q. hrs.)

Significance of clothing choices in all cultures; psychological reasons for clothing selection; political and economic trends affecting clothing; and an analysis of the fashion market.

232. Fashion Analysis. (Omitted 1967-68.) (4 q. hrs.)

A study of fashion; selected designers, cycles and trends of fashion, terminology, production and distribution of fashion goods and factors affecting consumer acceptance.

Prerequisite: Home Economics 131.

233. Textiles. Fall. (4 q. hrs.)

An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market.

Prerequisite: Home Economics 131.

235. Household Physics. (4 q. hrs.)

Application of physical sciences to the home. Selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Background information for home economists in business.

245. Home Management Theory. Fall and Winter. (2 q. hrs.)

Principles of scientific management as applied to the home; includes a study of family finance, household buying, care of equipment, time and energy management, and housing problems.

300. Family Economics. Winter. (4 q. hrs.)

Factors affecting family financial management, including the influence of economic conditions on the welfare of families. Investments and savings; use of credit; insurance, and various types of family accounts.

301. Tailoring. Every quarter. (4 q. hrs.)

Tailoring techniques used in the construction of a suit or coat.

Prerequisite: Home Economics 201.

302 (344). Advanced Nutrition. Spring. (4 q. hrs.)

Principles of human nutrition and desirable dietary habits as applied to the needs of individuals at various stages in the life span; some emphasis on current nutrition research.

Prerequisite: Home Economics 102.

303. Human Nutrition and Food Supply. Every quarter. (4 q. hrs.)

Fundamentals of normal nutrition and its application to feeding adults and children; principles involved in menu building, food buying and preparation.

For non-majors only.

310 (203). Family Food Management. Spring. (4 q. hrs.)

Application of scientific principles of menu construction, food buying, food preparation and table service meals at various cost levels. Special emphasis on management and work simplification techniques.

Prerequisite: Home Economics 210, 211.

312. Advanced Experimental Foods. (Omitted 1967-68.) (4 q. hrs.)

Advanced studies of physical chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 210, 211 and 212.

320. Family Housing. Every quarter. (4 q. hrs.)

Choices available in moderate-priced housing; arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.

331. Historic Costume. Fall. (4 q. hrs.)

A comparative study of the dress of selected cultures from the Egyptians through World War II.

Prerequisite: Home Economics 231.

333. Advanced Textiles. Winter. (4 q. hrs.)

A study of the chemistry of textile fibers; problems will involve a wide range of fibers and fabrics but will stress synthetics. Research methods of analyzing and interpreting data in testing procedures will be used.

Prerequisite: Home Economics 232.

340. Methods of Teaching Home Economics.

Winter and Spring. (4 q. hrs.)

The principles of teaching applied to home economics with particular emphasis on developing the curriculum, and the organization and administration of vocational departments in the public schools.

Prerequisite: Admission to teacher education.

345. Home Management House Residence. Every quarter.
(4 q. hrs.)

Experience in the practical application of the principles of household management is offered through residence in the home management house.

Prerequisite: Home Economics 210, 211, and 245. Advanced registration with department required.

346. Child Development. Every quarter. (4 q. hrs.)

The physical, mental, social, and emotional development of the pre-school child.

347. Family Relationships. Every quarter. (4 q. hrs.)

Study of the family as the basic unit of society; personal relationships, boy-girl relationships; marital relationships and family interaction throughout the family life cycle.

360. Institutional Food Management. (Omitted 1967-68.)
(4 q. hrs.)

Methods of food preparation in quantity; menu planning for institutions; recipe selection and standardization; economical use of materials and time. Practical experience is offered in the University food service.

Prerequisite: Home Economics 102, 210, and 211.

370. Summer Practicum. Arranged. (4 q. hrs.)

An individually planned employment experience in business appropriate to the student's area of specialization and approved by the head of the department in cooperation with the supervisor in the business.

Prerequisite: Permission of the department head and acceptance of the student by a business firm on the basis of the student's application.

380. Demonstration Techniques. Spring. (4 q. hrs.)

Development of desirable techniques and standards for use of the demonstration method. Critical evaluation of individual and team demonstrations suitable for use in business, teaching, and adult education.

390. Communications in Home Economics. Fall (4 q. hrs.)

A study of techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups in various professional situations.

401. Principles of Pattern Design. Spring. (4 q. hrs.)

Principles of designing clothing and the translation of these

designs into paper patterns; includes pattern drafting, grading, and fitting garments. Each student is required to create an original design, draft the pattern, and construct the garment.

Prerequisite: Home Economics 301 or consent of instructor.

402. Diet Therapy. (Omitted 1967-68.) (4 q. hrs.)

A study of the therapeutic care of a patient through the prescription of a specific diet, relating the art and science of normal nutrition to the dietary treatment and symptoms of the disease.

Prerequisite: Home Economics 302.

420. Interior Design. Winter. (4 q. hrs.)

Selection and arrangement of furnishings with the emphasis on planning costs and budgets for different income levels; planning of individual rooms including the study of accessories, color schemes, and suitable fabrics.

430. Home Furnishings. (Omitted 1967-68.) (4 q. hrs.)

A study of the consumer's problems in the selection of home furnishings. Making of draperies, slip covers, and the upholstering of furniture is included in the laboratory work.

431. Textiles and Senior Seminar. Spring. (4 q. hrs.)

An advanced study of textile fibers, yarns, weaves, and finishes. Current trends and research in home economics.

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

INDUSTRIAL ARTS

Professors: C. A. Elliott, E. W. Fowler, Klehm (Head), Sonderman

Associate Professors: Erwin, Griffin, Strandberg

Assistant Professor: Coleman

Instructor: Watson

Substitute Instructor: Nestel

UNDERGRADUATE COURSES

131. Engineering Graphics. Fall and Spring. (4 q. hrs.)

Work in multiview, graphs, isometric drawing and isometric projection, oblique projection, sectional views, and dimensioning. Fundamental concepts of descriptive geometry. For pre-engineering students.

134. Woodwork I. Every quarter. (4 q. hrs.)

Function, care, and use of woodwork hand tools, woodwork supplies, and finishes. Two class discussions and six periods of laboratory work each week.

135. Woodwork II. Winter and Spring. (4 q. hrs.)

Continuation of Industrial Arts 134: study and use of power woodwork equipment. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 134.

140. General Metal. Every quarter. (4 q. hrs.)

The development of manipulative techniques in the use of hand tools and machines for working iron, steel, and non-ferrous metals; processes in forming, shaping and finishing hot and cold metal. Two class discussions and six periods of laboratory work each week.

150. Applied Electricity. Every quarter. (4 q. hrs.)

A study of principles of electricity as they apply to house wiring, appliances, laboratory power circuits and automotive ignition. Four class discussions and two periods of laboratory work each week.

224. Primary Grade Industrial Arts. Every quarter. (4 q. hrs.)

Dissemination of subject matter information; laboratory experiences with industrial materials as a teaching device in the lower grades. Two lectures and six laboratory periods per week.

This course is not open to industrial arts majors.

225. Intermediate Grade Industrial Arts. Fall and Spring. (4 q. hrs.)

Laboratory experiences and informational materials concerning industrial crafts for intermediate grade level. Two lectures and six laboratory periods per week.

This course is not open to industrial arts majors.

231. Mechanical Drawing I. Every quarter. (4 q. hrs.)

Techniques of drafting, instrument practice, sketching, geometrical construction, pictorial drawing, multiview projection, dimensioning, sectioning, and reproduction of drawings. One class discussion and seven periods of laboratory work each week.

232. Mechanical Drawing II. Winter and Spring. (4 q. hrs.)

Pictorial sectioning, representation of machine fasteners, development of surfaces and intersections. One class discussion and seven periods of laboratory work each week.

Prerequisite: Industrial Arts 231.

233. Mechanical Drawing III. Spring. (4 q. hrs.)

Techniques of drafting as applied to industrial working drawings in design, layout, detail drawings, assembly drawings, parts lists, gearing and cams.

Prerequisite: Industrial Arts 232.

234. Engineering Geometry and Graphics. Fall. (4 q. hrs.)

Perspective drawing, sketching and illustration; advance spatial geometry with emphasis on solution of engineering and technical problems involving points, lines and planes; parallel, angular and perpendicular relationships; problem solution by equations; geometry of plane and space vectors; and graphical calculus.

Prerequisites: Proficiency in Industrial Arts 232, Mathematics 134.

245. Industrial Arts Design. Fall and Spring. (2 q. hrs.)

Designing as applied to Industrial Arts projects is the principal emphasis. The functional approach is used with fitness to materials, techniques, physical, social and psychological considerations as factors influencing design.

259. Introduction to Graphic Arts. Fall and Winter. (4 q. hrs.)

Laboratory experiences in hand composition, platen presswork, bookbinding, papermaking, and rubber stamp making. Information about industrial practices, occupations, and graphic arts in education. Two class discussions and six periods laboratory work per week.

260. Advanced Graphic Arts. Winter and Spring. (4 q. hrs.)

Further laboratory experiences in hand composition, imposition, platen presswork, and linoleum block cutting. Information about typographic design, halftone, paper, ink, type design, and layouts. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 259.

265. Woodfinishing. Fall and Spring. (2 q. hrs.)

Discussion periods: preparation of surfaces to be finished,

bleaches, stains, fillers, resinous finishes, wipe-on finishes and refinishing.

Laboratory; experimenting with a variety of finishes applied by various methods to a variety of woods.

300. Applied Electronics. Fall. (4 q. hrs.)

A study of and assembly of electronic circuits used in radio receivers, transmitters and automated controls of machines. Two class discussions and 4 periods of laboratory work each week.

Prerequisite: Industrial Arts 150.

326. Sheet Metal. Winter and Spring. (4 q. hrs.)

Techniques in the use of hand tools and machines for shaping sheet metal; practice in surface development; study of pertinent subject matter. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 232.

336. Millwork. Fall and Spring. (4 q. hrs.)

Furniture and cabinet making with woodwork machines; care and adjustment of machines; spray finishing; planning laboratory activities. Two class discussions and six periods of laboratory work each week.

Prerequisite: Industrial Arts 135, 232, 245, and 265. The student pays for material used in this course.

340. Methods of Teaching Industrial Arts. Fall and Spring. (4 q. hrs.)

The selection, organization, and preparation of instructional content for class and laboratory use. Application of appropriate principles of teaching. For majors and minors.

Prerequisite: Six industrial arts laboratory courses. Admission to teacher education.

352. Machine Metal Work I. Fall and Winter. (4 q. hrs.)

Theory and operation of the lathe, milling machine, shaper, surface and pedestal grinders, and drill press. The study of tapers, threads, abrasives, and layout procedures. Two class discussions and six periods of laboratory work per week.

Prerequisite: Industrial Arts 140.

354. Machine Metal Work II. Winter and Spring. (4 q. hrs.)

Advanced techniques of lathe, milling machine, shaper, and grinder operation. The study of precision measurement, metallurgy, heat-treatment, and gearing. Two class discussions and six periods of laboratory per week.

Prerequisite: Industrial Arts 352.

356. Machine Metal Work III. Spring. (4 q. hrs.)

Machining of castings, study of foundry practices, tool and cutter grinding, gear cutting, heat-treatment. One class discussion and seven periods of laboratory per week.

Prerequisite: Industrial Arts 354.

360. Letterpress Printing. Fall. (4 q. hrs.)

Laboratory experiences in automatic press work, bindery processes, production cost methods, silk-screen printing, advanced layout and copyfitting, color printing, special printing processes. Two class discussions and six periods of laboratory work per week.

Prerequisite: Industrial Arts 260.

361. Linotype Operation and Maintenance. Spring. (4 q. hrs.)

Laboratory experiences in the care, adjustment, repair and operation of the Linotype. Two periods of class work and six periods of the laboratory work per week.

Prerequisite: Industrial Arts 260.

375. Woodturning. Spring. (2 q. hrs.)

Operation and care of wood lathes; the use of lathe tools for spindle and face plate turning. One class discussion and three periods of laboratory work each week.

Prerequisite: Industrial Arts 336.

380. Housing I. Fall and Winter. (4 q. hrs.)

Neighborhood planning as it affects residential districts, cost factors in house construction, architectural services, architectural styles, interior planning, and mechanical considerations. A house is planned and presentation drawings are prepared.

382. Housing II. Winter and Spring. (4 q. hrs.)

A continuation of Industrial Arts 380. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Two class discussions and six hours of laboratory work each week.

Prerequisite: Industrial Arts 380.

420. Welding Technology. Fall and Winter. (4 q. hrs.)

The technology of welding processes and materials; the development of basic skills in the use of electric arc and oxy-acetylene equipment.

444. Tool Maintenance. Spring. (2 q. hrs.)

Reconditioning and care of hand and power operated saws,

straight edge cutting tools, and wood boring tools. One class discussion and three hours laboratory work each week.

Prerequisite: Industrial Arts 336.

447. Technical Investigations in Industrial Arts.

On demand. (4 q. hrs.)

Technical investigation involving experimental laboratory work and a written report of findings. Area of study must be approved by instructor before registration for course.

Prerequisite: Industrial Arts major of senior standing. Student pays for needed materials not available from department supplies.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. Organization of Subject Matter. On demand. (4 q. hrs.)

A continuation of Industrial Arts 340 involving advanced work in the preparation of instructional material with a view of providing for individual needs and progress. Graduate student must write a course paper.

Prerequisite: Industrial Arts 340.

452. Recreational Crafts. Fall. (4 q. hrs.)

A study in depth of contemporary crafts involving technical information and laboratory experiences. Students taking this course for graduate credit will conduct a substantial investigation. Two lectures and six laboratory periods per week.

458. History of Vocational Industrial Education.

Summer, 1968. (4 q. hrs.)

A course in the history, organization and administration of vocational industrial education. Federal and State laws affecting industrial arts and vocational programs.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Graphic Arts in a Changing Culture. Winter and Spring. (4 q. hrs.)

Offered as a cultural course in the graduate program. Develops an appreciation of the importance of graphic arts through discussion, laboratory experiences, field trips and appropriate audio-visual presentations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Achievement Evaluation in Industrial Arts.

Winter. (4 q. hrs.)

Kinds and types of evaluating instruments; principles of test construction; and construction of several tests. The evaluation of laboratory work is considered.

561. Course Making in Industrial Arts. Fall. (4 q. hrs.)

The horizontal and vertical approach is used. The student is required to construct at least one complete course outline and evaluate it against accepted criteria.

565. Philosophy of Practical Arts Education.

Spring. (4 q. hrs.)

Sociological principles, theories, and beliefs which have contributed to present educational practices; relationships of practical arts education, vocational education, and general education; philosophical considerations underlying current vocational education programs.

570. Design and Construction in Industrial Arts.

Winter. (4 q. hrs.)

Preparation of idea drawings for laboratory activities to meet educational needs of the several ability levels of students now in school. Treatment of selection of construction methods is included.

Prerequisite: Industrial Arts major including a background in principles of design.

575. Professional Research in Industrial Arts.

On demand. (4 q. hrs.)

Designed for development of instructional aids, devices or problems for teaching industrial education. The plan for research to be undertaken must be approved by the instructor and head of the department. Conference method.

580. Planning of Industrial Arts Laboratory.

Summer. (4 q. hrs.)

A study of the physical facilities and equipment needs for teaching industrial arts, an opportunity is provided for planning new laboratories or redesigning those now in use. Two class discussions and four periods of laboratory work each week.

595. Thesis. (+ q. hrs.)

SCHOOL OF MUSIC

The School of Music is a member of the National Association of Schools of Music. Membership in this Association is granted to schools which can show evidence of permanence and stability and which meet in full the standards of the Association for all the music curricula offered by the institution.

MUSIC

Professors: Aulabaugh (Head, Music Theory, History, Literature), Bouknight (Assistant Director), Hare (Director), C. A. Smith (Head, Keyboard), Westcott.

Associate Professors: Pence (Head, Music Education), J. H. Robertson, R. W. Weidner

Assistant Professors: Hicks, Hieronymus, J. D. Johnson, J. W. Krehbiel, Maharg (Head, Vocal), Olson, Radtke, Schuster, Schweitzer, Todd, Zwicky

Instructors: Jacoby, Key, Larvick, G. P. Sanders, Ulfeng

UNDERGRADUATE COURSES

120. Basic Music for Classroom Teachers. Every quarter. (4 q. hrs.)

A study of basic music theory through aural analysis and musical notation. Emphasis is placed on ear training, singing by ear and from notation, rhythmic responsiveness and keyboard harmony.

For Elementary and Junior High majors.

126, 127, 128. Class Instruction in Piano.

Fall, Winter, and Spring. (1 q. hr. for each course.)

A beginning course for students without previous piano study. This year's work substitutes for first year piano in applied music.

130, 131, 132. Music Theory.

Fall, Winter, and Spring. (4 q. hrs. for each course.)

The study of scales, modes, intervals, basic harmony, rhythm, basic forms and key relationships. Aural understanding developed through dictation and sight singing.

Must be taken in sequence.

133, 134, 135. The First Year's Work in Applied Music. Piano, Voice, Strings, Woodwinds, Organ, or Brasses.

Every quarter. (1 q. hr. for each course.)

136, 137, 138. Class Instruction in Voice.

Fall, Winter, and Spring. (1 q. hr. for each course.)

Beginning vocal instruction for all not assigned to studio instruction. Emphasis is placed upon the attainment of good vocal habits and the ability to sing musically.

146, 147, 148. Class Instruction in Strings. Fall, Winter, Spring. (2 q. hrs. for each course.)

200. Class Instruction in Clarinet, Flute and Saxophone. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

201. Class Instruction in Oboe and Bassoon.

Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

204. Class Instruction in Trumpet and French Horn.

Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

205. Class Instruction in Trombone, Baritone, Tuba and Drums. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

210, 211, 212. Ensemble, Band. (1 q. hr. for each course.)

213, 214, 215. Ensemble, Chorus. (1 q. hr. for each course.)

221, 222. Fundamentals of Music. 221—Fall. 222—Winter.
(4 q. hrs. each course.)

These courses are a continuation of Music 120. Emphasis is placed on basic music theory and those fundamental musical skills and understandings needed to develop the degree of competency necessary to teach general music in the elementary classroom.

Prerequisite: Music 120. Required of elementary majors with an Area I or II Concentration in Music. Must be taken in sequence.

225. Music Literature for Elementary Teachers.

Spring. (4 q. hrs.)

This course is designed to develop skills in listening to and understanding major forms and styles of Western Music which are especially suitable for use in the elementary general music program.

Prerequisite: Music 120 or equivalent. Required of elementary majors with an Area I or II Concentration on Music.

226, 227, 228. Class Instruction in Piano. Fall, Winter, and Spring. (1 q. hr. for each course.)

An intermediate course for students with previous piano study. Emphasis is placed on practical piano skills, piano technique, and interpretation of standard piano literature of an intermediate level.

Prerequisite: Music 128 or permission of instructor.

229. Introduction to Music Literature. Every quarter.
(4 q. hrs.)

A study is made of various types and forms of music as a means of increasing the student's awareness and understanding in listening to music. Representative selections from the great masterpieces of music are made familiar through listening and analysis.

230, 231, 232. Music Theory. Fall, Winter, and Spring.
(4 q. hrs. for each course.)

A study of the construction and manipulation of the materials of music composition, including harmonic and contrapuntal procedures and development of aural skills.

Prerequisite: Music 132. Must be taken in sequence.

233, 234, 235. The Second Year's Work in Applied Music.
Every quarter. (1 q. hr for each course.)

240. Laboratory in Music Education. Every quarter. (2 q. hrs.)

A laboratory course with emphasis on direct observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.

243, 244, 245. Vocal Diction. Fall, Winter, Spring.
(1 q. hr. for each course.)

A course designed primarily for voice majors (vocal performance emphasis); concerned with problems of pronunciation, meaning, dictionary use, and communication in the singing of English, Italian, German, and French.

Prerequisite: Applied voice 133, 134, 135, or equivalent.

246, 247, 248. Basic Keyboard Skills. Fall, Winter and Spring.
(1 q. hr.)

Courses are designed to develop basic skills in transportation, harmonization and extemporaneous accompaniment of melodies, and sight reading at the keyboard.

256, 257, 258. Ensemble: Cecilian Singers, Men's Glee Club, and Orchestra. (1 q. hr. for combination of two organizations in given quarter.)

310, 311, 312. Ensemble, Band. (1 q. hr. for each course.)

313, 314, 315. Ensemble, Chorus. (1 q. hr. for each course.)

320. History and Literature of Music. Fall. (4 q. hrs.)

The development of music from the ancient times through the Renaissance.

Not open to music majors or minors.

321. History and Literature of Music. Winter. (4 q. hrs.)

Music from the Baroque through the Classical Period.

Not open to music majors or minors.

322. History and Literature of Music. Spring. (4 q. hrs.)

Music from the Romantic Period to the present.

Not open to music majors or minors.

328. Music in Elementary Schools. Fall, Winter, and Spring.
(4 q. hrs.)

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Music 120. For Elementary Education Majors.

333, 334, 335. The Third Year's Work in Applied Music.

Every quarter. (1 q. hr. for each course.)

339. Methods of Teaching Vocal Music in Elementary Schools. Spring. (4 q. hrs.)

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Admission to teacher education.

340. Methods of Teaching Music in Secondary Schools.

Winter. (4 q. hrs.)

This course deals with the music instruction program in both junior and senior high schools. Its primary focus is on the general music class plus other specialized classes not having performance as their primary concern.

Prerequisite: Admission to teacher education.

342, 343. Opera Workshop. Fall and Winter.

(2 q. hrs. for each course.)

The study and performance of opera roles and selected opera scenes. Class participation will involve all aspects of staging, acting and singing. May be taken only with the permission of the instructor.

347. Orchestration. Fall. (4 q. hrs.)

Practical experience in scoring the string and wind instruments for public school music groups. Standard scores serve as a guide for study.

351. History and Literature of Music. Fall. (4 q. hrs.)

Development of music from ancient times through the Renaissance.

Open only to music majors and minors.

352. History and Literature of Music. Winter. (4 q. hrs.)

Development of music from the Baroque through the Classical.

Open only to music majors and minors.

353. History and Literature of Music. Spring. (4 q. hrs.)

Development of music from the Romantic Era to the Present.
Open only to music majors and minors.

356, 357, 358. Ensemble: Chorus, Orchestra, Cecilian Singers, and Men's Glee Club. (1 q. hr. for any combination of two organizations in a given quarter.)**362. Piano Pedagogy.** Spring. (4 q. hrs.)

A study of the problems of teaching piano for both individual and class lessons. An understanding of the piano mechanism, history of piano techniques, sight reading, memorization, etc. are included. A survey of piano teaching materials is made.

Prerequisite: Two years of applied piano.

380. Choral Conducting and Materials. Fall. (4 q. hrs.)

A study of conducting techniques, organizations, score reading and interpretations essential to working effectively with vocal ensembles. Materials for use in the public school music program are studied. The class also serves as a laboratory chorus.

381. Instrumental Conducting and Materials. Winter.
(4 q. hrs.)

A study of baton technique, score reading and rehearsal routine. Materials for use in the public school music program are studied and appropriate literature for chamber groups, orchestra and band are included.

410, 411, 412. Ensemble, Band. (1 q. hr. for each course.)**413, 414, 415. Ensemble, Chorus.** (1 q. hr. for each course.)**432. Psychology of Music.** (Omitted 1967-68.) (4 q. hrs.)

Analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements in the psychology of music in a teaching situation.

433, 434, 435. The Fourth Year's Work in Applied Music.
Every quarter. (1 q. hr. for each course.)**447. Analysis and Form in Music.** Winter. (4 q. hrs.)

A study of the structure of music, the elements of musical form, and the relationship between structure (form) and content.

Prerequisite: Music 232.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

455. Band Arranging. Winter. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public school. Group needs are analyzed and projects are prepared and performed by special ensembles.

456, 457, 458. Ensemble: Orchestra, Cecilian Singers, Men's Glee Club. (1 q. hr. for any combination of two organizations in a given quarter.)**460. Marching Band Procedure.** Fall. (2 q. hrs.)

Rudiments of marching and playing in field maneuvers. Training the band in pageantry and formations is accomplished through laboratory experiences.

464. Church Music. Winter. (4 q. hrs.)

A study of performance problems in the basic sacred works along with a survey of the liturgy and music from early times through the twentieth century.

465. Techniques for Developing and Training Stage and Dance Bands in the High School. Winter. (2 q. hrs.)

A course dealing with basic problems in organization development, and training of the high school stage and dance band.

Prerequisite: Music 200, 204, or permission of instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500, 501, 502, 503. Individual Instruction in Literature.

Every quarter. (1 q. hr.)

Voice, piano, organ, band and orchestral instruments; a practical course in performance and interpretation of representative compositions.

504, 505, 506, 507. Individual Instruction.

Every quarter. (2 q. hrs.)

Advanced study in piano, organ, voice, band, and orchestra instruments. Designed to increase personal performance as well as to develop a repertoire.

510. Sixteenth Century Counterpoint. Fall. (4 q. hrs.)

A basic study of music techniques in polyphonic music. Sixteenth century counterpoint is treated and the style includes that of Palestrina and the English madrigal.

Prerequisite: Music 232.

511. Eighteenth Century Counterpoint. Winter. (4 q. hrs.)

A study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale.

Prerequisite: Music 232.

512. Composition in Small Forms. Winter. (4 q. hrs.)

Original composition of vocal and instrumental music.

Prerequisite: Music 447.

513. Band Literature for the Public Schools.

(Omitted 1967-68.) (2 q. hrs.)

The literature of the high school band is included as well as training materials for beginning groups. Materials are analyzed and surveyed in view of needs and interests. Training as well as cultural materials are included.

514. Materials of the Orchestra. (Omitted 1967-68.) (2 q. hrs.)

Materials of the high school and elementary school orchestra and the more mature groups are treated. Literature is studied with view of training values as well as for performance.

516. Advanced Conducting and Performance Practices.

Fall. (4 q. hrs.)

A study of the styles of choral, band, and orchestra literature as they pertain to the problems of the conductor. The student concentrates in the area of his special interest.

Prerequisite: Music 380 or 381.

517. Analytical Techniques. Fall. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 447.

526. Administration of Instrumental Organizations. Spring. (2 q. hrs.)

This course aims to prepare the student for administrative problems which apply particularly to the instrumental teacher and which lie beyond the area of pedagogy.

528. Aesthetics of Music. Winter. (4 q. hrs.)

An analysis of man's search for beauty through musical experience; the meaning and value of beauty in music as realized by creator, performer, and listener throughout various historical periods.

530. Chamber Music Literature. Summer. (4 q. hrs.)

Survey of the literature of chamber music, quartet, trio, quintet, etc., in various instrumental combinations. The literature is presented through analysis of formal structure and aesthetic values.

531. Principles of Singing. Spring. (4 q. hrs.)

A consideration of the processes involved in voice production: respiration, phonation, articulation, and resonance. The psychological, physiological, and acoustical problems involved in the teaching of singing.

532. Symphonic Literature. Fall. (4 q. hrs.)

A survey of orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romanticists, the National schools, and late European and American developments.

534. Song Literature. Winter. (2 q. hrs.)

Prerequisites, diction and elementary grammar in either French or German. Techniques of song study, interpretation, and program building.

536. Opera and Oratorio. Spring. (4 q. hrs.)

A study of selected opera and oratorio literature from Monteverdi to the present day.

538. Literature of the Piano. Winter. (4 q. hrs.)

A study of the piano literature with emphasis on style of various periods and selected composers.

545, 546. Independent Study in Music. Every quarter. (1-4 q. hrs. for each course.)

Advanced work on a topic or problem selected by the student. Student must submit an outline of his plan of work to the Director of the School of Music for approval and assignment to an instructor.

547. Advanced Orchestration. Spring. (4 q. hrs.)

A study of instruments of the orchestra and their usage in orchestral writing. The course serves as an aid to the interpretation of music and builds a knowledge of the basic techniques in writing for instruments.

550. Music in History. Fall. (4 q. hrs.)

A study of the development of the art of music from the beginning through the Medieval, Gothic, Renaissance, and Romantic periods to the modern era.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Music in Contemporary Culture. Fall. (4 q. hrs.)

Emphasis is placed upon developing judgments and perception through study of ideas and forces which influence composers, comparative listening, discussion and writing about music.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555. Teaching Technique of Strings. (2 q. hrs.)

An advanced course in the teaching of string instruments. It is designed to give the teacher of music a course which will strengthen his knowledge of methods, techniques, and training literature for public school teaching.

556. Teaching Techniques in Woodwinds. Fall, Winter and Spring. (2 q. hrs.)

An advanced course in woodwind instruments. It is designed to give the teacher of music advanced techniques in teaching materials and methods of the woodwind instruments.

557. Teaching Techniques in Brass and Percussion.

Fall, Winter, and Spring. (2 q. hrs.)

Practical work in the advanced techniques of the brass and percussion instruments. Materials and methods pertaining to the instrumental program in the public schools are studied.

560. Music in the Elementary School. Summer. (4 q. hrs.)

The advanced course in the teaching of music in the elementary school deals with the child with reference to the problems of teaching singing, rhythms, creative expression, listening experiences, and preparation for the instrumental program.

561. Methods of Music in Junior and Senior High School. Summer. (4 q. hrs.)

Curriculum construction, course content, class voice, the general music class, physical facilities, library building, building the program for assemblies in music, community relationships and materials in music are included for detailed study.

562, 563. Foundations and Principles of Music Education.

Winter and Spring. (4 q. hrs. for each course.)

Systematic treatment of the total music education program through examination of the historical, philosophical and psychological foundations of music education, and development of principles for all aspects of the operation of the music program.

566. Introduction to Research in Music. Fall. (4 q. hrs.)

A study of the scope and characteristics of the areas of music history and literature, composition and theory, performance, and music education, including problems in basic bibliography. Course involves library and research techniques as well as practice in organizing and reporting data.

578. Performance in Music. Winter and Spring. (4 q. hrs.)

Areas of special interest in preparation for the performance major.

580. Seminar in the Problems of Music Education.

(Omitted 1967-68.) (2-4 q. hrs.)

The consideration of special problems in music education is planned on an individual basis. Students present individual problems and work on projects under the guidance of members of the music staff.

581. Music of the Twentieth Century. Spring. (4 q. hrs.)

The chief musical developments in Western Europe and the Americas from 1890 to the present.

584. Music in the Renaissance Era. Winter. (4 q. hrs.)

A critical appraisal of selected music by Renaissance composers, including genres, styles, and media, with particular emphasis on distinctively Renaissance stylistic features.

Prerequisite: Music 351, 352, and 353.

585. Music in the Baroque Era. Spring. (4 q. hrs.)

A critical appraisal of selected music by Baroque composers, including representative genres, styles, and media and emphasizing distinctively Baroque stylistic features.

Prerequisite: Music 351, 352, 353.

586. Music in the Classic Era. Winter. (4 q. hrs.)

A critical appraisal of selected music by Classical composers, including representative genres, styles and media and emphasizing distinctively Classic stylistic features.

Prerequisite: Music 351, 352, 353.

587. Music in the Romantic Era. Fall. (4 q. hrs.)

A critical appraisal of selected music by Romantic composers, including representative genres, styles, and media emphasizing distinctively Romantic stylistic features.

588, 589. Seminar in Music History. Winter and Spring.
(4 q. hrs. for each course.)

Intensive study of special topics dealing with the eras of the Middle Ages, Renaissance, and Baroque; Classic, Romantic, and Twentieth Century.

595. Thesis. (4 q. hrs.)**APPLIED MUSIC**

In the major applied field, at least two years of study prior to college entrance are required. Private instruction is offered in strings: violin, viola, violoncello, and contrabass; brasses; cornet, trumpet, French horn, trombone, baritone, and bass horn; woodwinds: flute, clarinet, oboe, saxophone, and bassoon; percussion; voice; piano; organ. In the case of organ, the student must demonstrate facility on piano before acceptance.

A student with major or minor in music for the degree B.S. in Ed. must select one of the above as his chief performing medium. Minimum applied requirements are as follows:

Vocal Principal

Voice—11 q. hrs.

Piano—3 q. hrs.

Keyboard Principal

Piano or Organ—11 q. hrs.

Voice—3 q. hrs.

Instrumental Principal

Band or Orchestral Instrument—11 q. hrs.

Piano—3 q. hrs.

Voice—3 q. hrs.

Instrumental Music Minor

Band or Orchestral Instrument—3 q. hrs.

Vocal Music Minor

Voice—3 q. hrs.

CREDIT ORGANIZATIONS IN MUSIC

The student with a major or minor in music may register after the freshman year for credit in the following ensemble organizations: Band, Chorus, Orchestra, Cecilian Singers, and Men's Glee Club. Elementary education majors may elect a maximum of 4 q. hrs. credit in choral ensembles. Only music majors and minors may apply credit in ensemble toward graduation requirements. Non-music majors or minors are invited to participate in the above listed organizations on an extra-curricular basis. Credit is accumulated each quarter at the rate of $\frac{1}{2}$ q. hr. for each organization, except band and chorus which are one quarter hour credit per quarter. No more than two quarter hours of credit may be earned in a single quarter regardless of the number of organizations in which the student participates.

Minimum ensemble requirements for music majors for the degree B.S. in Ed. are:

Instrumental Option—6 q. hrs. credit in instrumental organizations. (A student with a keyboard principal may elect either instrumental or choral organizations.)

Choral Option—6 q. hrs. credit in choral organizations.

General Option—6 q. hrs. credit in choral and instrumental organizations.

Minimum requirements for music minors:

Instrumental Option—3 q. hrs. credit in instrumental organizations.

Choral Option—3 q. hrs. credit in choral organizations.

A maximum of nine quarter hours in ensemble credit may be submitted toward graduation requirements. The music major is encouraged to participate in at least one ensemble during each quarter of residence.

Mixed Chorus

Membership in the mixed chorus is by audition. Four meetings per week. Prerequisite: three quarters of participation in Cecilian Singers or Men's Glee Club, or superior choral experiences in high school or other college. On Wednesdays at 4:00 p.m. this group forms the nucleus of all University Choral Union for the study and performance of Oratorios, Masses, and Cantatas to which all interested singers are invited without prerequisite.

Marching Band

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

Concert Band

The concert band functions as a musical unit for study and performance of all types of band literature. Membership is open to all students.

Symphonic Winds

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

Pep Bands

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

Stage Band

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held one evening each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

Orchestra

The orchestra appears in public concert each year. In addition the orchestra joins the chorus in presenting major productions in opera, oratorio, and other musical occasions. Many instruments are furnished in order to supply a complete instrumentation.

Symphonette

A select "little symphony" for the performance of the highest quality orchestral literature. Membership is open to faculty, students and area residents. Membership is selected by audition.

Cecilian Singers

A woman's glee club, open to all qualified women, both majors and non-majors. Two meetings per week.

Men's Glee Club

A men's chorus, open to all qualified men, both majors and non-majors. Two meetings per week.

NON-CREDIT MUSICAL ORGANIZATIONS**Chamber Singers**

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

Chamber Groups in Instrumental Music

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature. These groups appear publicly and are regularly in rehearsal.

Recitals

Each student graduating with a major in music is required to present appropriate junior and senior recitals demonstrating his musical growth and artistry. All students, except freshmen, are required to appear (each year) in the series of student recitals in order to gain experience in musical performance. A student who demonstrates outstanding accomplishment in a study or teaching area shall be permitted to petition for exemption from performance in a senior recital.

XI. Statistics and Graduates

SUMMARY OF ATTENDANCE

Twelve Months Ending May 25, 1967

SCHOOL YEAR—June 6, 1966, to May 25, 1967

UNIVERSITY

<i>Full-Time, On Campus:</i>		Summer*	Fall	Winter	Spring
Seniors:	Men	305	453	465	499
	Women	220	324	359	410
	Total	525	777	824	909
Juniors:	Men	174	606	633	646
	Women	217	507	504	548
	Total	391	1113	1137	1194
Sophomores:	Men	141	717	610	569
	Women	201	724	645	603
	Total	342	1441	1255	1172
Freshmen:	Men	293	1000	891	740
	Women	256	966	899	757
	Total	549	1966	1790	1497
Unclassified:	Men	---	---	---	---
	Women	---	---	---	---
	Total	---	---	---	---
Graduates:					
Fifth Year:	Men	294	74	72	81
	Women	156	18	21	22
	Total	450	92	93	103
Sixth Year:	Men	40	5	3	3
	Women	12	0	2	0
	Total	52	5	5	3
Total:	Men	1247	2855	2674	2538
	Women	1062	2539	2430	2340
	Total	2309	5394	5104	4878

Part-Time, On Campus:

Seniors:	Men	50	13	23	20
	Women	55	24	21	21
	Total	105	37	44	41

*Includes eight and ten weeks enrollments

		Summer*	Fall	Winter	Spring
Juniors:	Men	24	4	3	4
	Women	24	17	16	19
	Total	48	21	19	23
Sophomores:	Men	28	3	8	12
	Women	32	21	17	20
	Total	60	24	25	32
Freshmen:	Men	40	16	13	29
	Women	51	32	26	45
	Total	91	48	39	74
Unclassified:	Men	---	---	---	---
	Women	---	---	---	---
	Total	---	---	---	---
Graduates: Fifth Year	Men	20	129	92	123
	Women	38	98	65	78
	Total	58	227	157	201
Sixth Year	Men	5	27	36	47
	Women	6	9	8	9
	Total	11	36	44	56
Workshops:	Men	22	---	---	---
	Women	45	---	---	---
	Total	67	---	---	---
Total	Men	189	192	175	235
	Women	251	201	153	192
	Total	440	393	328	427
<i>Total, On Campus</i>	Men	1436	3047	2849	2773
	Women	1313	2740	2583	2532
	Total	2749	5787	5432	5305
<i>Full-Time Equivalent (Resident)</i>		2558	5558	5243	5056
<i>Part-Time, Off Campus</i>	Men	20	21	---	38
	Women	56	149	---	94
	Total	76	170	---	132
<i>Total University</i>	Men	1456	3068	2849	2811
	Women	1369	2889	2583	2626
	Total	2825	5957	5432	5437
<i>Full-Time Equivalent</i>		2583	5615	5243	5100
LABORATORY SCHOOL					
	Boys	110	270	276	267
	Girls	128	251	245	248
	Total	238	521	521	515

Degree Graduates

*Graduated at end of Fall Quarter

†Graduated at end of Winter Quarter

MAY, 1966

SPECIALIST IN EDUCATION

Borton, Jr., Gail L.....Charleston

Total: 1

MASTER OF SCIENCE IN EDUCATION

Anderson, Edward Henry.....Toledo

Biggs, Betty I.....Mattoon

Blume, Robert Kenneth.....Greenville

Carman, Joyce Aleta Mineo.....Mattoon

Daugherty, Thurlo Robert.....Beecher City

Dreas, Joseph A.....Ashley

Ellis, Charles Robert.....Mt. Vernon, Indiana

Eveland, Larry Wayne.....Paris

Ferguson, Paula Kay.....Joliet

Ferren, Robert Gordon.....Mattoon

†Gee, Norman Walter.....Streator

Geiken, Duane Orval.....Milford

Goldman, Cyril.....St. Charles

Greenhalgh, Duane Carl.....Charleston

Gudauskas, Doris Jean.....Charleston

Hanley, Bonnie Kay Van Rheeden.....Frankfort

James, Richard Keith.....Urbana

Kline, Edward W.....Mt. Carmel

Koontz, Helen Ruth.....Charleston

Leitsch, Faye Rosetta.....Charleston

Maxedon, Larry Wilson.....Kankakee

Mills, David S.....Lawrenceville

†Myers, Walter Keith.....Lexington

Owen, Marie E.....Tuscola

Powell, Wilbur F.....Ojai, Calif.

*Price, Gary Edgar.....Shelbyville

Quick, William Ray.....Charleston

Reed, Robert S.....Greenville

Sanders, Claud D.....	Charleston
Smith, Billy Pat.....	St. Elmo
Timmons, Kenneth Wilson.....	Catlin
Wang, Mei Ein.....	Taipei, Taiwan, China
†Zeller, Barton Wallace.....	Chicago Heights

Men: 24 Women: 9 Total: 33

MASTER OF ARTS

Choi, Seunghyun.....	Seoul, Korea
Pichon, Fabein Martin.....	Danville
Stilgebauer, Marcia McKown.....	Charleston
Titus, Charles Wayne.....	Casey

Men: 2 Women: 2 Total: 4

BACHELOR OF SCIENCE IN EDUCATION

Acklin, Linda Sue.....	Newton
*Adams, Jeanette Kay.....	Windsor
Addams, James Carlton.....	Danville
†Aimone, Alan Conrad.....	West Chicago
*Akins, Jerry Wayne.....	Noble
Alexander, Sue Ellen.....	McAlester, Oklahoma
Allen, Donna Sue.....	Carrollton
Altman, Mary Elaine.....	Effingham
*Andrew, Dixie Ellen.....	Westville
*Anfinson, Gordon Rudolph.....	Charleston
*Appling, Jessica Casselberry.....	Flora
Armon, Elizabeth Michele.....	Vandalia
*Ash, Harold Lee.....	Noble
Astle, James A.....	Flushing, New York
Atkins, Judith Ellen.....	Claremont
*Atkins, Robert Wayne.....	Claremont
*Azeris, Monika.....	Springfield
Bacon, Vicki Sue.....	Charleston
Bahney, Harold Steven.....	Toledo
Bailey, Larry Gene.....	Oblong
Baker, Elizabeth Ann.....	Chicago
Ballance, Sandra Russell.....	Charleston
†Balodimas, Nicholas James.....	Chicago
*Barenfanger, Gail Mabry.....	Charleston
Barnes, John Irvin.....	Butler
Barreto, Librado Galarza.....	Mattoon
Bartell, Daniel Paul.....	Mt. Prospect
Bartell, Karen Joyce Livengood.....	Bartonville
†Batterton, Lawrence Durrell.....	Colfax
*Beasley, Virginia R.....	Mattoon
Belcher, W. Maurice.....	Hillsboro
Berry, Jr., Wayne C.....	Olney
*Bertauski, Anthony Frank.....	Hammond, Indiana
Best, Minor Leroy.....	Lerna
Blixen, Thomas Whiteside.....	Edwardsville
Bloomquist, Judith Ann.....	Harvey

Blumberg, Bonnie Lee.....	Collinsville
*Bohn, Sharon Sue.....	Broadlands
Bossinger, Dennis C.....	Tuscola
Bourdoumis, Helen Kay.....	Hillsboro
Bracha, Shirley Jean.....	Chicago
Brackett, Janice Kay.....	Newton
Brackney, William Charles.....	Catlin
†Bradford, Mary Katherine.....	Paris
Brasted, Mae E.....	Barrington
Brockmeier, Barbara Ann.....	Edwardsville
Brooks, Karen Jean Rush.....	Girard
Brooks, Kenneth Seyler.....	Hazel Crest
†Brown, James Ward.....	Montrose
*Bryant, Carolyn E.....	Ingraham
Bryant, Donald Eugene.....	Murdock
Bucher, Judith Kay.....	Marshall
*Builta, Marilyn Diane.....	Ellsworth
Bundy, Sherry Lee.....	Odin
†Burgett, David Charles.....	Paris
Bush, Val Jean.....	Champaign
Butler, Jacqueline Jo Scribner.....	Charleston
Cahill, Robert Paul.....	Kankakee
Calvert, Mallie Ann.....	Des Plaines
†Campbell, Marva Sue Duzan.....	Oakland
†Campbell, Sarah Ann.....	Olney
†Carr, Jean Marie.....	Lawrenceville
Carrell, Jr., Lawrence.....	Toledo
*Carrell, Mary Jane.....	Cisne
*Carson, Roger Allen.....	Shannon
Catey, Henry Jay.....	Greenup
Chaapel, Linda Lou.....	Danville
†Chaapel, Sandra Sue.....	Danville
*Champlin, Susan Annette.....	Danville
*Christine, David Franklin.....	Robinson
*Cirks, George Edward.....	Beecher
†Claypool, Thomas Eugene.....	Alvin
Clawson, Kathy.....	Windsor
Clayton, John Myhrel.....	Edwardsville
†Clem, Harold.....	Auburn
Cochran, II, Thomas Louis.....	Sumner
Colbert, Judith Anne.....	Charleston
Colbert, Theodore N.....	Charleston
Collins, Margaret Mary.....	Casey
Colter, Carolyn Louise.....	East Alton
Condict, Sherri Jean.....	Mattoon
Corn, Michael Jon.....	Mattoon
*Crail, Judith Kay Fox.....	Girard
Crail, Kathleen Sue.....	Charleston
Crawford, Barbara Phyllis.....	Effingham
†Crispe, Roy Keith.....	Oak Lawn
Culp, Joan Roberta.....	Charleston
Cummins, Kenneth Wayne.....	Wilmington
†Cummins, Jerry Lyne.....	Hidalgo
Cunningham, Joyce Ann.....	Danville
†Curtis, Bill G.....	Ray
Curtis, Jerry L.....	Ashmore
Damann, Jr., Kenneth Eugene.....	Charleston
†Danek, Miles Peter.....	Hillside
*Davenport, Tierney Elise.....	Argenta
Davis, Cheryl Ann Brondell.....	Springfield
Davis, David Philip.....	Greenville

Davis, Diane	Lawrenceville
Davis, Donna Carol	Chicago
Davis, Geoffrey N.	Champaign
†Davis, Janice Elaine Gilbert	Martinsville
Davis, Kenneth Martin	Trilla
†Deal, Janet Kay	Morrisonville
Dean, Thomas Earl	Rantoul
†Deckard, Harold Lee	Brocton
Decker, Glenn	Olney
*Diak, Lawrence Andrew	Granite City
Dillon, Diane May	Chicago
Dolik, Virginia L.	Chicago
†Dorris, Phyllis Diane	Charleston
Edwards, Karen Ann	Effingham
Edwards, Lester Dale	Shelbyville
*Elke, Richard Alfred	Morton Grove
Esker, John L.	Teutopolis
†Essex, Janet Darline	Canton
Estoppey, Mary Ann	Centralia
Evans, Michael Jon	Charleston
Eversgerd, Marilyn Ann	Mascoutah
*Ewoldt, Elliott Louis	Grant Park
Fansler, Beverly Anne	Smithboro
Fauver, Jerry Dean	Charleston
*Ferguson, Dennis Ray	Bement
Ferrero, Gary John	Watseka
Finke, Diana Lenore	Oak Lawn
*Finke, Sandra Kay	Granite City
†Finley, Lynda L.	Charleston
†Fitzpatrick, Janet Sue	Charleston
*Fleming, George Wesley	Hindsboro
*Forrestal, John Edward	Ivesdale
Foulk, Janice Berg	Staunton
Freeberg, Betty Ann	Princeton
Freimuth, James Edward	Centralia
Freimuth, Vicki Sue Beckman	Danville
Full, Donald Raymond	Cairo
Gabel, Lawrence Lee	Charleston
*Gabriel, Patricia M.	Elmhurst
Galey, Linda Kay	Martinsville
*Garbe, Harold Victor	Belleville
†Gariepy, Larry Eugene	Bridgeport
Garrett, Anita Kay	Mattoon
*Gean, Ronald Woodrow	Centralia
Gerlach, Gretchen June	West Salem
Gibbons, Gloria E.	Springfield
Gibbons, James R.	Chicago
*Giesecking, Nadine Nobbe	Harvel
*Gift, Catherine Yvonne	Lake City
Gillespie, Rita Lane	Watson
*Gochanour, Robert Denby	Charleston
*Gordon, Bonita June Kielhorn	Camargo
†Gray, John Robert	Sumner
*Green, Mary Ann	Indianola
Grote, Jill Lind	Park Ridge
*Guffey, Jeannine Gayle	Deland
Guthrie, Glenda Kaye	Sidell
Haberer, Roger Lynn	Pocahontas
*Haile, Donald Ralph	Wayne City

Hallam, Betty June Kerr.....	Ellery
†Hamilton, David James.....	Elmwood Park
†Hamilton, John Michael.....	Mattoon
Hammer, Jerry Lloyd.....	Villa Grove
Hanley, Joe Larkin.....	Charleston
Hanner, Martha Jane.....	Oakland
Hanula, Sandra Jean Creekmur.....	Decatur
Hardt, William Lee.....	Elburn
†Harpster, Beulah Lois.....	Gays
Haslett, Ruth Ann.....	St. Elmo
†Hein, Betty Anne.....	Gifford
*Helm, David Alexander.....	Edwardsville
Heminger, Jean Hettich.....	Charleston
Heminger, Tad.....	Franklin, Indiana
Henderson, Janeice Grafton.....	Lerna
Herren, David Roland.....	Fillmore
*Hicks, Bennie Ray.....	Mattoon
Hieronymus, Janet Lou.....	Taylorville
*Hilligoss, Robert.....	Arcola
†Hinkle, Carol Ann.....	Maroa
Hinkle, Larry Lee.....	Maroa
Hodge, Dolores Ann.....	Roselle
Hogan, Daniel James.....	Kingston, Massachusetts
Hopkins, John Raymond.....	Oakland
Houser, Kathryn Anne.....	River Grove
*Houston, Marion Luther.....	Paris
†Houston, Pamela Ann.....	Watseka
*Howard, Mary Helen.....	Springfield
*Hubbert, Ruth Jan.....	Newton
Hughes, Geoffrey A.....	Rochester, New York
Hughes, Nancy Pauline.....	Palestine
†Hummel, Sharon Lynne.....	Decatur
Iftner, Larry Lee.....	Pittsfield
Jackson, Marjorie Catey.....	Greenup
James, Sam George.....	Toledo
Jebe, Roger Carl.....	Decatur
*Jennings, Robert Eugene.....	Palestine
†Jensen, Peter Charles.....	Elmwood Park
Jensen, Wayne Eugene.....	Bourbon
Johnson, Carolyn Tyler.....	Casey
†Johnson, Donna Jo.....	Paxton
*Johnson, Sally Ann.....	Chicago
Jones, Jr., Gilbert Bernard.....	Rantoul
*Jones, Patricia Joann Cummins.....	Urbana
*Jordan, Gwendolyn.....	Chicago
*Jordan, Lynda Kay.....	Tolono
Josephson, Eric Paul.....	Canton
Justis, Joel Albert.....	Chicago
†Kawula, Phyllis Ann.....	Granite City
Keller, Sharon Kathryn.....	Newton
Kelly, Michael Paul.....	Kankakee
Kendziorek, William John.....	Bradley
†Kerans, Laurel Emmerich.....	Newton
Kerr, Linda Beth.....	Urbana
King, Linda Brown.....	Charleston
*King, Thomas Martin.....	Elmwood Park
Kinkade, Phyllis Ann.....	West Salem
†Kleemann, Janet A.....	Clinton
†Kleiss, Dorothy Ann.....	Villa Grove
Klink, John Curtis.....	Charleston

Knitter, Patricia Ann.....	Summit
Koehler, Michelle Arlene.....	Charleston
Koehler, Ronald Keith.....	Charleston
*Kuetemeyer, Vincent Frederick.....	Monticello
*Lafferty, Francine Kay.....	Tuscola
*Lanman, Juanita M.....	Ashmore
†Lawless, Patricia Jo.....	Newman
†Lawson, Henry Randolph.....	Savoy
†Leach, Janet Kaye McCoy.....	Springfield
†Leavens, LaDonna Kay.....	Cowling
Leffler, Mary Louise.....	Sumner
Leggitt, Charlotte Ann.....	Willow Hill
†Leming, Paula Swickard.....	Charleston
Leslie, Larry Zane.....	Lawrenceville
Lessner, Melodye Lee Presnell.....	Dixon
*Liggett, Dale Layton.....	Muncie
Lindley, Robert J.....	Minonk
Linville, Cheryl Elaine.....	Fairmount
†Logsdon, Frederick Alvin.....	Louisville
*Loman, Sue Meadows.....	Newman
Lovell, Alan Chalmer.....	Findlay
*Lowry, Kathlene Rose Stapfer.....	St. Louis, Missouri
*Luckner, Bonnie Jean.....	Park Ridge
†Luther, Robert Kent.....	Charleston
Lybarger, Karen Lee.....	Troy
Maddox, Donald Bruce.....	Centralia
Magruder, James Edward.....	Northlake
Mahoney, Patricia Lynn.....	East St. Louis
Malone, Ann Porter.....	Enfield
*Malthe, Donna Lee.....	Zion
†Marlow, Myron Lee.....	Charleston
Marshall, Gerald Earl.....	Paxton
Martin, James Norman.....	Charleston
Matzner, Kenneth Eugene.....	Charleston
McCall, Christine Margaret.....	Kankakee
McCormick, Carol Ann.....	Mt. Carmel
McCormick, Harold.....	Grayville
McElya, Jerry Allen.....	Villa Grove
*McNeely, George Bradley.....	Charleston
Meehan, Janalyn Bean.....	Wheaton
Merriam, Jacquelyn Lee.....	Chatham, New Jersey
Meyer, Nancy Dee.....	Belleville
Meyers, Kenneth John.....	Neoga
*Middleton, Sandra Sue.....	Caseyville
†Miglin, James George.....	Westville
*Miller, Robert Donald.....	Champaign
Monk, Ernest Edward.....	Benson
*Morgan, Darrell Lee.....	Marshall
Morr, Joann Catherine.....	Newton
Moseley, Margaret Hope Petty.....	Nokomis
Moulden, Joseph Antony.....	Oblong
†Murbarger, Richard Dale.....	Louisville
Murvin, Melinda Jo.....	Clay City
†Mutzl, Nicola F.....	Franklin Park
†Myers, Brenda May.....	Macon
*Nelson, Paul David.....	Evanston
†Nilsen, II., Edward Walter.....	Oak Park
Nuxoll, Mary Lee.....	Mattoon
*Ofstedahl, Melvin Nicolay.....	Oak Lawn

†Ogletree, Judith Faye.....	Mattoon
Ostapkowicz, Ronald William.....	Oak Lawn
Overbeck, Dennis John.....	Momence
Palmer, John Edwin.....	Galesburg
Parienti, Maxime Victor.....	Highland Park
Pasero, Peter Joseph.....	Paris
*Pastori, Ronald Joseph.....	Joliet
†Pattin, Martin William.....	Charleston
Pelszynski, Sue Anne.....	Danville
†Perry, Benjamin Dwight.....	Shelbyville
*Perry, Robert Stephen.....	Seymour
Peters, Dick Lee.....	Homer
Petersen, Charles Bertrum.....	Decatur
†Pool, Janice Kay.....	Sumner
Powers, James Michael.....	Charleston
Powers, Richard Dan.....	Chicago
Prendergast, Judith Ann.....	Homewood
†Quandt, Diana L.....	Altamont
Rakers, Elizabeth Rose.....	Ramsey
*Rardin, Frances Ellen.....	Kansas
*Reed, James Harold.....	Galesburg
Reed, Robert Wayne.....	Murdock
Reid, Mary Gertrude.....	Carlinville
*Richard, Fred Arnold.....	Franklin Park
*Richards, Wanda Carol.....	Mansfield
†Rickett, Connie Elaine.....	Altamont
*Rickett, Robert Eugene.....	Altamont
*Ridge, Martha Louise.....	River Grove
†Ripley, Linda.....	Rossville
†Ritchie, Samuel Hamilton.....	Streator
*Robinson, Alvin Ronald.....	Charleston
Rochat, Shirley Louise.....	Windsor
†Roth, Mary Vick.....	Allerton
Rubly, Dana Lynette.....	Charleston
Rychlewski, Karen Anne.....	Bridgeview
*Scheldt, Elenor Louise.....	Carlinville
†Schlickman, Richard Eugene.....	Gibson City
Schmitz, Theodore James.....	Streator
Schnorf, Stephen B.....	Charleston
Schormann, Gary Allan.....	Effingham
Schormann, Nadine Alice.....	Dieterich
Schormann, Randall Sydney.....	Effingham
*Schramm, Carolyn Ann.....	Chicago Heights
*Scott, Walter Lee.....	Georgetown
Sechrest, Joseph Eugene.....	Bridgeport
Semetis, Ronald Steven.....	Orland Park
*Sena, Joe Larry.....	Effingham
*Shafer, Dawn Rae.....	Chicago
Shafer, Robert Frank.....	Charleston
Sharp, Beverly Diane.....	Greenup
Shew, Arlene Lynette.....	Palestine
Sikora, Richard Alexander.....	Chicago
Simmons, Dorothy Jean.....	Chicago
Sims, Janet Eileen.....	Windsor
†Sims, Sara Louise.....	Charleston
†Slifer, Carolyn Ann Lowery.....	Effingham
†Smith, Paula Jean.....	Park Forest
Smith, Sara Sue.....	Oblong
Snapp, Georgeann.....	Danville

*Sokol, Anton Joseph.....	Cary
†Sprague, Norma Jean.....	Clinton
Stapleton, Jo Ellen Smith.....	Newman
Steele, Ardel Rae.....	Edgewood
Steele, Arthur R.....	Des Plaines
Sterrenberg, Diann Lynn.....	Crescent City
Stevens, Larry O.....	Charleston
*Stevenson, Anita Ann.....	Salem
Stewart, Thomas Leon.....	Champaign
Strack, Lynn Ray.....	Sadorus
Strunk, Linnie Jo Love.....	Mattoon
*Stutz, Roberta Jean.....	Pesotum
†Sullivan, Charles Patrick.....	Mattoon
Sullivan, Nona F.....	Shelbyville
†Summers, Stephen Howard.....	Olney
Sunday, Larry Neal.....	Clay City
*Swigart, Karen Alice.....	Sidell
†Talley, Richard Wilbur.....	Lawrenceville
Tarr, Harold W.....	Newton
*Taylor, Elma L.....	Charleston
*Taylor, James Porter.....	Mill Shoals
*Taylor, Joanna Mae.....	Toledo
Taylor, Trudy Ann.....	Mattoon
Tegtmeyer, Dianne Lynne.....	Elmwood Park
Temple, Stephen Randall.....	Charleston
*Thrush, Dana Beth.....	Charleston
Torrence, Gaylord D.....	Galesburg
*Trost, Rita Jean.....	Kankakee
Ummel, Ronald Lloyd.....	Charleston
*Van Dyke, Martha Jo Bell.....	Charleston
Van Zant, Rita Lynne.....	Tuscola
*Venis, Ronald M.....	Charleston
Venters, Daniel Lee.....	Shelbyville
Ventress, J. Andy.....	Effingham
Vidoni, Marcia Lee Keranen.....	Chicago
Vitton, Marcia Clare.....	Springfield
Voyles, Carolyn Mae.....	Ridge Farm
Voyles, Susan Ann.....	Hoopeston
Vursell, Glenda Kay.....	Salem
†Wagner, Barbara Ann Edmundson.....	Martinsville
†Wagner, Gary Edward.....	Bridgeport
Walsh, John O.....	Potomac
*Walters, William Clinton.....	Greenup
Warma, Beth Louise.....	O'Fallon
Watkins, Noel Franklin.....	Casey
Weaver, Judith Ann.....	Mattoon
†Weger, Philp Michael.....	Lawrenceville
Weidner, Geraldine Ann.....	Gillespie
Weingart, Phyllis Ann.....	Lansing
Wendlandt, Janis Louise.....	Martinsville
*Wetzler, J. Richard.....	Peoria
*Wetzler, James Lea.....	Peoria
Wickenberg, Mary Anne.....	Rockford
*Willett, William Edward.....	Paris
*Williams, Bette Neal.....	Charleston
Williamson, Sharon Elaine.....	Robinson
†Wilson, Jerry A.....	Newton
†Wilson, Lynn Edward.....	Shelbyville
Winans, Rita Ann.....	Paris

*Woodard, Avice	Hidalgo
†Woodward, Nancy Ann Elizabeth.....	Granite City
Workman, Carol Sue.....	Shelbyville
†Wright, Bonnie Lee.....	Chrisman
*Wright, Warren Dean.....	Robinson
*Wyatt, Wilford Gene.....	Noble
*Yanello, Joseph A.....	Streator
*Young, Priscilla Kay.....	Blue Mound
Zales, William Milton.....	Western Springs

Men: 190 Women: 211 Total: 401

BACHELOR OF SCIENCE

Bardwell, Judith Ann.....	Belmont, California
Bigard, William S.....	Newton
Dart, Martin Stanley.....	Urbana
Davis, Jonathan Lockwood.....	Park Ridge
*Ducey, Steven Craig.....	Robinson
*Edgar, Frederick M.....	Charleston
Farlander, William J.....	Kankakee
Fling, James Calvin.....	Charleston
Gardner, Phillip Eugene.....	Casey
Griffith, James D.....	Mattoon
Harper, Glenn Warren.....	Villa Grove
Hulmes, Vernon Lyle.....	Sidney
Jobe, III, Harley B.....	Charleston
Johnston, George Landahl.....	Watseka
*Jordan, Thomas Bruce.....	Oakland
*Kinsall, Joyce Charlene.....	Charleston
†Kirk, Jr., John Brian.....	Blue Island
Knight, Kenneth F.....	Charleston
*Lanman, Robert Lee.....	Casey
†Leight, Albert Lea.....	Charleston
†Linne, James H.....	Winthrop Harbor
Malcolm, Linda Lorine.....	Lake George, New York
Marshall, Bruce Briggs.....	Trilla
*McMurray, Harold Dennis.....	Charleston
Miller, Keith Allen.....	Mt. Carmel
*Mui, Mei Mei.....	Chicago
Norman, David Lawrence.....	Elmhurst
†O'Hara, James Joseph.....	Ivesdale
*Pinkley, W. Raymond.....	Decatur
Platt, Robert Louis.....	Oak Lawn
Plesh, Joseph F.....	Springfield
*Rann, Monte R.....	Dallas, Texas
*Reasor, William Sayre.....	Charleston
*Rentschler, Colletta Lue.....	Mattoon
†Ringhofer, Stephen Paul.....	Franklin Park
Rude, William Henry.....	Olney

Selewach, Conrad Alexander.....	Nutley, New Jersey
*Shore, Pauline E.....	Sailor Springs
Sidlowski, Julian Joseph.....	Downers Grove
†Talley, Barbara Josephine.....	Paris
*Van Dyke, Lloyd M.....	South Elgin
Wiechert, James Eric.....	St. Joseph
Wrigley, James William.....	Decatur
Men: 36 Women: 7 Total: 43	

BACHELOR OF SCIENCE IN BUSINESS

Adams, Timothy Alfred.....	Oak Lawn
Arthur, Jr., James Hubert.....	Crete
*Barnard, Barry R.....	Park Forest
Bellefeuille, Donald G.....	Rome, New York
*Brockway, Jr., Lowell Garner.....	Champaign
Bultmann, Leland Wilmer.....	Edwardsville
Clark, John Gary.....	Arcola
Collie, John Anthony.....	Calumet
Coutts, Douglas.....	Carpentersville
*Daugherty, James Robert.....	Hammond
*Daugherty, Joseph Orville.....	Hammond
†Davis, James Michael.....	Granite City
†Dawson, Stephen Charles.....	Charleston
Dodson, Richard William.....	El Paso
Ellison, David J.....	Mattoon
Fagan, Richard James.....	Springfield
Ford, Robert W.....	Divernon
Foulk, Robert Lee.....	Arrowsmith
†Fox, Rex Eugene.....	Charleston
Gilbert, Thomas Leslie.....	Charleston
Gill, Jerry Dean.....	Decatur
Granger, Wayne Lee.....	Bourbonnais
Gregory, Vincent L.....	Monticello
†Grud, Thomas Anthony.....	Charleston
†Harper, James William.....	Ogden
Hausner, James George.....	Kankakee
Humrichouse, Donald Leslie.....	Ridge Farm
*Hunt, Robert Ray.....	Casey
*Huot, Gerald Wayne.....	Kankakee
†Johnson, Dennis Evan.....	Mattoon
Krohn, Richard H.....	Blue Island
†Lading, Larry Dean.....	Strasburg
Lavell, Timothy Edmond.....	Rock Island
†Lynch, Keith Rodger.....	Oak Lawn
Manion, R. Charles.....	Vandalia
Marlow, Edward K.....	Waukegan
Martin, Roger Monical.....	Allenville
†Merz, Jon Phillip.....	Hinsdale

Metheny, Leonard Alan.....	Dixon
Murphy, Michael Claude.....	Decatur
Nichols, Neil Stacy.....	Charleston
Novak, Pamela S.....	Chicago
O'Brien, Jack Thomas.....	Momence
O'Connor, Daniel Paul.....	Charleston
Osmundsen, John Rae.....	Chicago
†Pajkos, John Edward.....	Chicago
Poston, Richard Graham.....	Odessa, Florida
*Riggs, Ray Harlan.....	Charleston
†Roberts, Marvin Eugene.....	Alvin
Rogers, Robert George.....	Springfield
Rose, Douglas Scott.....	Northlake
Schelling, Louis Barry.....	Rantoul
†Seay, Armond David.....	Rantoul
Sherwood, Robert Wayne.....	Charleston
Shouse, Alvin Leroy.....	Effingham
Soliday, Dennis Allen.....	Chicago
Sorensen, III, Edwin Martin.....	Chicago
†Stine, Walter Curtis.....	Charleston
Taylor, Robert Ishmael.....	Charleston
Tempel, James Paul.....	Ivesdale
Thompson, Tedmar Jay.....	Mattoon
*Thrush, Vernal Kelly.....	Charleston
*Von Bergen, Tom Robert.....	Park Ridge
†Wade, Carl Dennis.....	Villa Grove
*Walden, James Eugene.....	Wapella
Weber, Joseph D.....	Ingraham
Whitten, Fred C.....	Paris
Wiley, Jr., John David.....	Gays
Williams, Rick Jackson.....	Fairfield
Yergler, Bruce Jay.....	Cissna Park
Men: 69 Women: 1 Total: 70	

BACHELOR OF ARTS

Carnahan, James E.....	Charleston
Gwinn, Sherry Nolte.....	Fertile, Minnesota
Haley, James Thomas.....	Champaign
Hiser, James Douglas.....	Paxton
†Kees, Lawrence Dean.....	Charleston
Peters, Mark Allen.....	Homer
*Prosser, Judith Ann.....	Charleston
†Wine, Larry John.....	Kankakee
Men: 6 Women: 2 Total: 8	

JUNIOR COLLEGE DIPLOMA

†McKay, Sharon Sue.....	Rolling Meadows
Total: 1	

AUGUST, 1966

SPECIALIST IN EDUCATION

Myers, Dean Lee.....Potomac

Total: 1

MASTER OF SCIENCE IN EDUCATION

Acksel, Glennon Joseph.....Mattoon
 Allen, Joyce Carmen Yandell.....Charleston
 Ameter, Sue Lynn.....Bridgeport
 Anfinson, Carolyn Goepfert.....Charleston
 Archey, Gary G.....Pana

Barbaro, William Joseph.....Chicago
 Baugh, Karol Raymond.....Monee
 Baxter, Ginny.....Rushville
 Brown, Milford Francis.....Canton
 Burcham, Daniel L.....Charleston
 Buscher, Robert Eugene.....Litchfield

Connor, Roger McKee.....Danville

Damhorst, Roger Ray.....Peoria Heights
 Deming, Henry Theodore.....Pana
 Doty, Karen M.....Charleston
 Dowling, David D.....Park Ridge

Eatock, David G.....Litchfield
 Ellis, Charles M.....Litchfield
 Ellis, Charles Robert.....Mt. Vernon, Indiana
 Ervin, Jr., Markes Floyd.....Mt. Zion

Fenton, Royden Kenneth.....Charleston
 Fischer, Stephen Corrie.....Mt. Carmel
 Flynn, John Thomas.....New Lenox
 Fulton, Darrel Leon.....Brocton

Geurin, William Lloyd.....Charleston
 Gibbs, Phyllis Yorke.....Charleston
 Gorgal, Allan Henry.....LaSalle

Harris, LeRoy L.....Bone Gap
 Hawley, Georgine.....Centralia
 Hill, Anna Marie Zemont.....Danville

Jackson, George Evan.....Manito
 Jolley, Donna Jean Haddock.....Tuscola
 Jones, Charles Joseph.....Paris

Kauder, Donna Rae Nolan.....Shelbyville
 Kimball, James Arthur.....Charleston
 Kruger, Richard Dean.....Mt. Pulaski
 Kutz, Harold Eugene.....Olney

Lin, Frances Ho-Mei.....Minneapolis, Minnesota
 Longfellow, III, Earl.....Charleston
 Lowry, George Bentley.....Charleston

Martin, James Edward.....Newton
 Mattingly, Letha Iona.....Charleston

Miller, Wanda Fay.....	Charleston
Myers, William LeRoy.....	Westchester
Neece, Donald Eugene.....	East Alton
Neibel, Donald Dean.....	Tower Hill
Noffke, Gary Lee.....	Sullivan
Parrish, Veda Maxine York.....	Paris
Pastori, Beverly Ellen.....	Kankakee
Peterson, Michael Duane.....	Algonquin
Reader, Daniel Lee.....	Granite City
Reed, Maurice Lee.....	Hutsonville
Reeds, Anne Bernice.....	Westfield
Reis, Annette Jeanne.....	Sainte Marie
Rhoads, Charles F.....	Oakland
Richardson, Claudia J.....	Charleston
Sargent, Philip Dean.....	Tower Hill
Seitz, Fredrick Louis.....	St. Louis, Missouri
Shelton, Beverly Jane.....	Bethany
Steigelman, George William.....	Chicago
Taylor, Wallace Creed.....	Tower Hill
Thomas, Stephen.....	St. Louis, Missouri
Thorne, Carolyn Merz.....	Robinson
Tolen, Donald A.....	Kansas
Trower, Richard Kent.....	Orion
Tucker, Jerry Wayne.....	Cowden
Tuttle, Judith Ann Dickson.....	Mattoon
Waldrop, Ralph Junior.....	Springfield
Walgren, Jr., John Wilson.....	Springfield
Walker, David L.....	Litchfield
Washburn, Frederick Kenneth.....	Flossmoor
Will, Nancy K. Bunker.....	Teutopolis
Wilson, Miriam Olive Wiley.....	Humboldt
Wirt, Harriett L.....	Charleston
Womack, Charles Ellis.....	Grayson, Kentucky
Wright, Shirley Evelyn.....	Neoga
Young, Priscilla Kay.....	Blue Mound

Men: 50 Women: 27 Total: 77

MASTER OF ARTS

Adams, Frank Glen.....	Toledo
Balzer, Chester John.....	Bethany
Chambers, Craig Madden.....	Monticello
Donaldson, Franklin Delaine.....	Effingham
Guthrie, Gary Lee.....	Sidell
Juriga, Sharon Ann.....	Charleston
VanVoorhis, Nancy Elizabeth.....	Tuscola

Men: 5 Women: 2 Total: 7

BACHELOR OF SCIENCE IN EDUCATION

Ahlberg, Skipper Merle.....	Taylorville
Allen, David Arthur.....	Millford
Allison, Marvin Wayne.....	Yale
Anderson, Jr., Glenn Eugene.....	Oak Forest
Archer, Jamie Sue.....	Charleston
Avenatti, Sandra Marie.....	Scotland
Avigliano, Victor Patrick.....	Charleston
Balzer, Barbara Dodds.....	Bethany
Bare, Nancy Diane.....	Bellmont
Baugh, Linda Stanley.....	Louisville
Bazzell, Martha Frances.....	Mattoon
Beck, Shirley Ann.....	Shelbyville
Bennett, Marilyn Jeanne.....	Charleston
Birch, Lillian Maxine.....	Ingraham
Boaz, Verla Austin.....	Cowden
Bolin, Amy Josephine.....	Charleston
Brackett, James Keith.....	Newton
Branch, Betty Jane.....	Salem
Braun, Sharon Irene.....	Norridge
Brock-Jones, Gerald Paul.....	Vandalia
Brownfield, Mary Katherine.....	Palestine
Carr, Linda E.....	Greenup
Carrow, Sallie Anne.....	Robinson
Cecala, Leonard Joe.....	Franklin Park
Choate, Frances Colleen Waller.....	Charleston
Christensen, Carl Loyde.....	Kankakee
Ciaccio, Francis V.....	Kankakee
Clark, Terry W.....	Jewett
Cleveland, William Lloyd.....	Charleston
Collins, Jr., Paul Russell.....	Albion
Cooper, Donna Lee Replogle.....	Charleston
Cox, Sharon Lou.....	Carmi
Craig, Robert Talbott.....	Mattoon
Culp, William Homer.....	Oakland
Cummins, Noel P.....	Casey
Curry, Barbara Jean.....	Mattoon
Doris, Janet Elizabeth Newlin.....	Paris
Douglas, Sharon Louise Dunn.....	Charleston
Dudley, George Clifford.....	Flora
Ehret, Jean Ellen.....	Belleville
Elowson, Anna Margaret.....	Papillion, Nebraska
Ericksen, John R.....	Midlothian
Evans, Sharon Eileen Maddox.....	West York
Faires, John Eugene.....	Kankakee
Fehrenbacher, Ray L.....	Ingraham
Ferrero, Sarah Kunkel.....	Watseka
Finrock, Norman Dean.....	Watseka
Fox, Malcolm Neal.....	St. Francisville
Freehill, Robert Tyrrell.....	Melvin
Freeman, Robert Eugene.....	Troy
Goodall, Marjory Jean.....	Sidell
Grantham, Marsha Elaine.....	Charleston
Gray, Nancy June.....	Belleville
Grubb, Sandra Jean.....	Westfield
Guerin, Peggy Lee Brown.....	Gillespie
Guyot, John Carl.....	Arcola

Haglauer, Louise Frances.....	Decatur
Hatch, Zeta K.....	Olney
Heise, Margaret Marie.....	Litchfield
Hencken, Jr., Louis Valentine.....	Belleville
Hendrix, Judith Ann.....	Monticello
Henry, Marilyn Ann.....	Philo
Higgins, Maureen.....	Springfield
Hoffman, Norman Wilson.....	Shelbyville
Holmes, Margaret Swanson.....	Arlington Heights
Holt, Anita Endsley.....	Champaign
Hopkins, Constance Christine.....	Decatur
Huddleston, Stephen Denzel.....	Yale
Hunt, James Lynn.....	Charleston
Hutchings, Dennis Edward.....	Mattoon
Jackson, Jennifer Evelyn.....	Springfield
Jacober, Rita Janet.....	Springfield
Jensen, Keith Robert.....	Elmwood Park
Jones, Jeanne Ferchow.....	Charleston
Kahl, Ruth Ellen.....	Morrison
Keefe, Kathleen Ann.....	Longview
Lackey, SueAndra.....	Robinson
Larsen, Karen Elaine.....	Dixon
Leech, Duane Philip.....	Paris
Leggitt, Frances M.....	Martinsville
Lehmann, Brenda Ray.....	Milford
Leonard, Camellia Anne Hallstrom.....	Evanston
Leonard, William John.....	Elgin
Lester, Michael Allan.....	Oak Lawn
Letts, Richard D.....	Chicago
Lilien, David Lawrence.....	Brooklyn, New York
Lindley, Gerald L.....	Neoga
Lorenc, Becky Lynn.....	East Peoria
Madding, Randall Stephen.....	Homer
Magill, Steve Martin.....	Newman
Majchrzak, Diane Marie Knudsen.....	Tinley Park
Martinie, Gary Dean.....	Longview
Masey, James Edward.....	Decatur
Maxwell, William Larry.....	Louisville
McClain, William Eugene.....	Waverly
McCoy, Barbara Ann.....	Hidalgo
McCune, Lanny.....	Mitchell, Indiana
Meranda, Forrest G.....	Westville
Miles, Jaqueline Hazel.....	Lerna
Minderman, Pamela Ruth.....	Lawrenceville
Mitchell, Laurel B.....	Brookfield
Mladiner, Catherine Marie Benzin.....	Elmhurst
Moon, Wallace G.....	Charleston
Morgan, Gary Wayne.....	Trilla
Negley, Sandra Leone.....	Noble
Newman, Bernita Bushart.....	Ashmore
Niendiek, Mary Jane.....	Teutopolis
O'Brien, Diann Marie.....	Charleston
Ochs, Myron Henry.....	Olney
Peters, John L.....	Paris
Peters, Stephen Hugh.....	Clinton
Prince, Cheryl Marie.....	Bradley

Quayle, Lucinda Gay.....	Olney
Rennels, Cyril Lee.....	Charleston
Rennels, Doris Jean.....	Charleston
Rennels, Robert William.....	Philo
Richards, Carroll Ray.....	Mattoon
Riggs, Dolores Suzanne.....	Mt. Carmel
Rinesmith, John William.....	Paris
Roscich, Carolyn Sue McRaven.....	Granite City
Sanders, Thomas W.....	Mattoon
Schimpf, Anthony W.....	Elmwood Park
Schnapp, Robert Wayne.....	Tallula
Schwelle, Christ Frank.....	Chicago
Senn, Barbara Jane.....	Danville
Shaw, Stephen Phillip.....	Urbana
Smith, Karen Lynn.....	Noble
Smittkamp, Marjorie Faye.....	Paris
Staley, Joanne Marie.....	Casey
Starwalt, Eleanor Maxine.....	Hidalgo
Stinson, Amy Cheryl McGuffey.....	Salem
Swank, John Allen.....	Stewardson
Swank, William F.....	Neoga
Temple, John Anthony.....	Mattoon
Thomas, Arthur Franklin.....	Rossville
Thompson, Everett Dean.....	West Union
Tice, Carol Jean Travis.....	Olney
Townsley, William Joseph.....	Olney
Waddell, Leyla Jane.....	Charleston
Walden, Deanna Rincker.....	Sullivan
Weber, Frank Jerald.....	Bogota
Whisker, Darlene LeMoynes.....	Charleston
White, Robert Donald.....	Lake Bluff
Whitehall, David Arthur.....	Bloomington
Williams, Judy K.....	Neponset
Williamson, Sheryl Lynn.....	Olney
Wilson, Donald Eugene.....	Rossville
Wilson, Max L.....	Toledo
Wingo, Patricia Ann.....	Westervelt
Wirth, Harold E.....	Albion
Wiswall, Pauline Camille.....	Bridgeport
Woodburn, Deanne Lee.....	Hillsdale
Wyatt, Nina Elise.....	Danville
Yontz, Jr., Robert Riggs.....	Chrisman
Zanders, Eileen Marie.....	Springfield
Zirzow, Linda Anna.....	Monee

Men: 72 Women: 85 Total: 157

BACHELOR OF SCIENCE

Bentley, Ronald Ralph.....	Newton
Bodart, Robert Lee.....	Westville
Bohlen, Haldon David.....	Mattoon
Connor, John.....	Newton
Dennis, Gregory S.....	Robinson
Duff, Richard Rex.....	Clinton

Elson, John Merle.....	Neoga
Engleton, Terre T.....	Decatur
Funtall, Edna Frances.....	Harvey
Horsburgh, Patricia Ann.....	Florissant, Missouri
Majchrzak, Robert Chester.....	Midlothian
Morgan, Carl August.....	Merced, California
Ware, Judith Ann.....	Westville

Men: 10 Women: 3 Total: 13

BACHELOR OF SCIENCE IN BUSINESS

Anderson, Gerald Carl.....	Bradley
Arnett, William C.....	Champaign
Awe, Vera Mae.....	Elkhart
Barrett, Jr., Charles Keith.....	Chicago
Case, James Elbert.....	Viriden
Church, Philip Hill.....	Paris
Corrado, David Ronald.....	Chicago
Curran, Patrick R.....	Bensenville
Fleming, Robert Louis.....	Danville
Freeman, Susan Ann.....	Centralia
Garner, James William.....	Dundas
Goff, George Adrian.....	Lawrenceville
Huffman, Thomas Wayne.....	Catlin
Jones, John Robert.....	Windsor
Kearney, Thomas C.....	Mattoon
Kester, Jr., Joseph Henry.....	Taylorville
Kuebler, Donald Frederic.....	Lake Worth, Florida
Liggett, Craig Frederick.....	Kankakee
Little, Robert Kenneth.....	Marshall
Mitchell, Ronald Louis.....	Oak Park
Ozee, Leoda Helen.....	Decatur
Sauer, David James.....	West Chicago
Schwarz, William Clay.....	Benton Harbor, Michigan
Sellers, Seth Liale.....	Decatur
Voell, Jr., John Raymond.....	Elmwood Park
Wilkey, James L.....	El Paso

Men: 23 Women: 3 Total: 26

BACHELOR OF ARTS

Bennett, Thomas Dale.....	Rantoul
Bristow, Ruth A.....	Norridge
Palusko, Paul Dean.....	Westville

Men: 2 Women: 1 Total: 3

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The Eastern Illinois University Foundation is a non-profit corporation chartered by the State of Illinois and authorized by the Board of Governors of State Colleges and Universities for charitable and educational purposes, and to otherwise serve the University.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms for gifts and memorials. The establishment of scholarships is particularly welcomed. Any gifts or bequests can be given suitable memorial names.

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All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisors, directors, and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the Eastern News and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

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Eastern Illinois University Catalog

APRIL, 1969



70th YEAR

ACADEMIC RECORD 1968-69 SESSIONS

ANNOUNCEMENTS

for

SUMMER 1969

and

1969-70 SESSIONS

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This catalog includes information concerning admission, registration, fees, housing, course offerings, etc., as it pertains to the summer sessions of 1969.

Undergraduate Quarter, June 9 to August 18

Graduate Term, June 23 to August 18

NOTICE

As necessary, supplements containing important changes in this catalog will be issued. When issued, such supplements will be distributed during the first two weeks of each quarter.

WORKSHOPS, CONFERENCES AND SPECIAL EVENTS

Summer, 1969

★

SUMMER WORKSHOPS

June 2-June 20	Seminar in Guidance, Education	597
June 2-June 20	Audio-Visual Workshop, Education	488
June 9-June 20	School Public Relations, Education	549
June 9-June 27	Music in Elementary School, Music	560
June 9-June 27	Outing Crafts, PEW	356
June 15-June 22	Eastern Music Camp—Chorus	
June 15-June 22	Eastern Music Camp—Piano	
June 15-June 22	Eastern Music Camp—Strings	
June 22-June 29	Eastern Music Camp—Band I	
June 22-June 27	Piano Teacher's Workshop, Music	480
June 23-June 27	School Lunchroom Workshop	
June 23-July 18	Consumer Economics, Home Ec.	542
June 29-July 6	Eastern Music Camp—Band II	
June 30-July 18	Narcotics, Health Education	480
June 30-July 18	Jr. & Sr. High Music, Music	561
July 15-July 21	High School Journalism—Newspaper	
July 21-August 15	Family Life Education, Home Ec.	542
July 21-August 15	Elementary & Jr. High P.E., PEW	514
July 22-July 28	High School Journalism—Yearbook	

SUMMER INSTITUTES

June 23-August 15	NSF High School Physics Teachers	
June 23-August 15	National Science Foundation	

SUMMER ABROAD

June 23-August 25	Ireland (Dublin)	
July 13-August 20	Mexico (Monterrey)	

Information concerning the foregoing, to include enrollment, fees and accommodations may be obtained by writing to the Director of Extension.

UNIVERSITY CALENDAR

1969-70

SUMMER QUARTER, 1969

Monday, June 9	Registration
Tuesday, June 10	Classes Begin
Monday, June 23	Graduate Registration Day
Tuesday, June 24	Graduate Classes Begin
Tuesday, July 1	Last Day to Apply for Summer Quarter Graduation
Friday, July 4	Independence Day
Tuesday, July 15	Constitution Examination
Friday, July 18	Last Date for Application for Certification
Wednesday, Thursday, Friday, Saturday, August 13, 14, 15, 16	Examinations
Thursday, August 14	Commencement
Monday, August 18	Quarter Closes

FALL QUARTER, 1969

Sunday, September 7	Parents Convocation
Monday and Tuesday, September 8 and 9	Registration
Tuesday, September 9	Last Day to Apply for Fall Quarter Graduation
Wednesday, September 10	Classes Begin
Tuesday, October 14	Constitution Examination
Wednesday, November 19	Study Day
To Be Announced	Commencement
Thursday, Friday, Monday, Tuesday, November 20, 21, 24, 25	Examinations
Wednesday, November 26	Quarter Closes

WINTER QUARTER, 1969-70

Wednesday, December 3	Registration
Wednesday, December 3	Last Day to Apply for Winter Quarter Graduation
Thursday, December 4	Classes Begin
Friday, December 19 (7:00 p.m.)	Christmas Vacation Begins
Monday, January 5 (7:00 a.m.)	Classes Resume
Tuesday, February 10	Constitution Examination
To Be Announced	Commencement
Thursday, February 26	Study Day
Friday, Saturday, Monday, Tuesday, February 27, 28, March 2, 3	Examinations
Wednesday, March 4	Quarter Closes

SPRING QUARTER, 1970

Wednesday, March 11	Registration
Wednesday, March 11	Last Day to Apply for Spring Quarter Graduation
Thursday, March 12	Classes Begin
Friday, March 27	Good Friday
Tuesday, April 14	Constitution Examination
Sunday, May 24	Commencement
Monday, Tuesday, Wednesday, Thursday, May 25, 26, 27, 28	Examinations
Friday, May 29	Quarter Closes

SUMMER QUARTER, 1970

Monday, June 8	Registration
Tuesday, June 9	Classes Begin
Monday, June 22	Graduate Registration
Tuesday, June 23	Graduate Classes Begin
Wednesday, July 1	Last Day to Apply for Summer Quarter Graduation
Tuesday, July 14	Constitution Examination
Thursday, August 13	Commencement
Tuesday, Wednesday, Thursday, Friday, August 11, 12, 13, 14	Examinations
Monday, August 17	Quarter Closes

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES



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J. Glenn Ross, Ph.D.	Professor
Walter M. Scruggs ³	Professor
Robert B. Thrall, M.S.	Assistant Professor

¹ Deceased, December 7, 1968.

² Beginning December 1, 1968.

³ Deceased, September 22, 1968.

Eastern Illinois University Charleston



FACULTY, 1968-69



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Ph.D., University of Wisconsin; LL.D., Carroll College

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M.Ed., University of Illinois

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Ed.D., Colorado State College

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Ed. D., Columbia University

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¹ Date of joining staff in parentheses.

² Effective October 1, 1968.

³ On sabbatical leave, summer 1969.

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D.Pol.S., Elizabeth University, Hungary
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Ph.D., University of Minnesota
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Ed. D., Colorado State College
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Ed.D., Indiana University
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M.A., University of Illinois (On leave, 1968-69)
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M.A., Western Michigan University
- Jurel V. JacksonResidence Hall Counselor (1968)
M.S.Ed., Northwest Missouri State College
- Le T. N. LienResidence Hall Counselor (1968)
M.A. in Ed., University of Northern Iowa
- Joyce A. PachciarzResidence Hall Counselor (1968)
M.S., Eastern Illinois University
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M.A., Northwestern University and Dean of Men (1957)
- Clark M. MaloneyAssistant Dean of Men (1966)
M.A., Kent State University (On leave, 1968-69)
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Adv.C., University of Illinois
- Louis V. HenckenResidence Hall Counselor (1967)
M.S. in Ed., Eastern Illinois University
- Ronald B. BrittonResidence Hall Counselor (1968)
M.A., Eastern Michigan University

¹ Acting Director, fall and wtr., 1968-69.

- Cliff J. ErwinResidence Hall Counselor (1968)
B.S.Ed., Eastern Illinois University
- Joseph L. LuppertResidence Hall Counselor (1968)
M.S.Ed., Indiana University
- Karl D. RunkleResidence Hall Counselor (1968)
M.S., San Diego State College
- William D. MinerAssistant Dean, Student Personnel Services (1950)
Ph.D., Indiana University
- James D. CoreyDirector of Counseling Center and
Ed.D., Colorado State College Testing Services (1964)
- Dale L. RobeyAssistant, Counseling Center and
Ed.D., Indiana University Testing Services (1967)
- John E. Grimes, Jr.Counseling Psychologist (1968)
M.A., Southern Illinois University
- David T. BairdCounselor (1959)
M.S. in Ed., Indiana University
- Ross C. LymanDirector of Financial Aids (1961)
M.S., Indiana State University
- Sue C. SparksAssistant Director of Financial Aids (1966)
M.S.Ed., Eastern Illinois University
- John T. FlynnAssistant, Office of Financial Aids (1968)
M.S.Ed., Eastern Illinois University
- Ruth H. GaertnerDirector of Residence Hall Food Service (1947)
M.S., Iowa State College
- Jerry D. Heath.....Director of Health Services and
M.D., University of Illinois University Physician (1956)
- Myron I. BoylsonAssistant, Health Services (1968)
M.D., University of Chicago
- Albert G. GreenDirector of Housing (1966)
Ed.D., University of Southern Mississippi
- Lois M. KramerAssistant Director of Housing (1966)
M.A., Boston University
- Herbert L. BrooksDirector of University Union (1966)
B.S. in Ed., Eastern Illinois University
- James R. GreeneAssistant Director of University Union (1967)
- William L. ClarkAssistant Director of University Union (1968)
B.S.Ed., Eastern Illinois University
- Carl A. FilskowCoordinator of Student Activities and
M.Ed., Wayne State University Foreign Student Adviser (1968)
- Glen D. Williams.....Dean of Student Academic Services and
Ph.D., The Ohio State University Director of Extension (1960)
- George Hackler, Jr.....Assistant, Student Academic Services (1967)
M.S. in Ed., Eastern Illinois University
- Maurice W. Manbeck....Associate Dean, Junior College Relations (1957)
Ph.D., University of Minnesota
- James E. Martin.....Assistant Dean, Records (1968)
M.A., University of Illinois (1968)
- Richard L. Campbell.....Assistant, Records (1968)
M.S.Ed., Eastern Illinois University
- Samuel J. Taber.....Assistant Dean, Registration and
M.S. in Ed., Southern Illinois University Advisement (1960)
(On leave, 1968-69)
- Edward T. Graening.....Assistant Dean, Registration and
M.S., University of Illinois Advisement (1967)
- William R. Quick.....Assistant, Registration and Advisement (1967)
M.S. in Ed., Eastern Illinois University
- William G. Hooper.....Academic Adviser (1962)
M.S. Ed., Illinois State University
- Sue B. Stoner.....Academic Adviser (1965)
M.S. in Ed., Eastern Illinois University
- Thomas E. McDewitt.....Academic Adviser (1966)
M.A., Southern Illinois University

- Claud D. SandersAcademic Adviser (1966)
M.S. in Ed., Eastern Illinois University
- Robert G. WinkleblackAcademic Adviser (1966)
M.S. in Ed., Eastern Illinois University
- Douglas A. BonewitzAcademic Adviser (1967)
M.A., Ball State University
- Calvin B. CampbellAcademic Adviser (1966)
M.A., University of New Mexico
- Janet F. HolleyAcademic Adviser (1968)
M.S.Ed., Eastern Illinois University
- Donald L. SchaeferAcademic Adviser (1968)
M.Ed., University of Illinois
- James F. KnottDirector of Placement (1957)
M.A., Northwestern University
- Robert E. JonesAssistant Director of Placement (1963)
M.S., Indiana State University (On sabbatical leave, 1968-69)
- Glen E. HubeleActing Assistant Director of
Placement (1968)
M.S., University of Illinois
- Murray R. ChoateDirector of Admissions and High
School Relations (1962)
M.S.Ed., Southern Illinois University
- John A. WalstromDirector, Data Processing Center (1959)
M.S. in Ed., Eastern Illinois University (On sabbatical leave, 1968-69)
- C. Michael DavidAssistant Director, Admissions and High School
Relations (1968)
M.S.Ed., Eastern Illinois University
- Roland D. SpaniolActing Director, Data Processing Center (1960)
Ph.D., University of Iowa
- Harley J. HoltVice President for Business Services (1963)
M.S., University of Wisconsin
- Marion L. ZaneAssistant Director of Business Services (1965)
M.S.Ed., Eastern Illinois University
- Paul E. HippleInternal Auditor (1968)
B.S., Indiana University
- John H. MorriseyBudget Officer (1968)
M.S.Ed., Eastern Illinois University
- Everett R. AlmsSuperintendent of Physical Plant (1965)
- Martin SchaeferVice President for Development (1958)
Ph.D., The University of Iowa
- Robert H. WeidhunerAssistant, Administrative Studies (1966)
B.S., Southern Illinois University

UNIVERSITY RELATIONS AND SPECIAL SERVICES

- Kenneth E. HeslerDirector, University Relations and Alumni Services (1951)
M.Ed., University of Illinois
- Harry ReadDirector, Information and University Publications (1964)
B.S.Ed., Eastern Illinois University
- Thomas E. HoppinDirector of Sports Information (1966)

INSTRUCTIONAL STAFF

- David C. Ahlstrom, Ph.D.Eastman School of Music
Associate Professor, Music Theory, History, and Literature. (1967)
- Dewey H. Amos, Ph.D.University of Illinois
Associate Professor, Geography and Geology. (1965)
- Eulalee L. Anderson, M.S. in Ed.Eastern Illinois University
Instructor, Library (Part-Time). (1967)
- Mary L. Anderson, Ed.S.George Peabody College for Teachers
Assistant Professor, Faculty for Professional Education. (1958)

* Denotes department head.

** Denotes acting department head.

- Leslie T. Andre, D.Pol.S. Franz Josef Royal University
Assistant Professor, Library. (1962)
- Richard D. Andrews, Ph.D. University of Illinois
Assistant Professor, Zoology. (1966)
- Mary B. Armstrong, M.A. University of Illinois
Instructor, Speech Correction (Part-Time). (1968)
- Charles B. Arzeni, Ph.D. University of Michigan
Associate Professor, Botany. (1965)
- Dennis W. Aten, B.S. University of Nebraska
Instructor, Physical Education for Men. (1968)
- D. Ferrel Atkins, Ph.D. University of Kentucky
Professor, Mathematics. (1958)
- Martha N. Atteberry, M.Ed. University of Illinois
Instructor, Laboratory School. (1967)
- Alan R. Aulabaugh, Ph.D. The University of Iowa
Professor, Music Theory, History and Literature.* (1957)
- Jumuna Bai, Ph.D. Wayne State University
Assistant Professor, Sociology-Anthropology. (1967)
- C. Ian Bailey, M.A. Colorado State College
Instructor, Physical Education for Men. (1968)
- Mary Alice Baker, M.A. Oklahoma University
Instructor, Speech. (1966)
- Weldon N. Baker, Ph.D. Columbia University
Professor, Chemistry. (1958)
- Harold E. Balbach, Ph.D. University of Illinois
Assistant Professor, Botany. (1966)
- Margaret K. Balbach, Ph.D. University of Illinois
Associate Professor, Botany. (1968)
- Wesley E. Ballsrud, M.A. The University of Iowa
Assistant Professor, Accounting.* (1964)
- Robert Barford, M.A. Marquette University
Substitute Assistant Professor, Philosophy. (1968)
- Shirley R. Barrette, B.S.Ed. Eastern Illinois University
Faculty Assistant, Laboratory School (Part-Time). (1968)
- Roger J. Barry, M.S.Ed. Eastern Illinois University
Assistant Professor, Geography and Geology. (1965)
- Ronald J. Basgall, M.S. Southern Illinois University
Instructor, Marketing. (1966)
- Steven A. Becker, Ph.D. The University of Iowa
Assistant Professor, Botany. (1968)
- L. Paul Benningfield, M.M. University of Illinois
Assistant Professor, Vocal Music. (1968)
- Randall H. Best, Ph.D. Oklahoma State University
Assistant Professor, Psychology. (1968)
- Clyde W. Biggers, M.A. University of North Carolina
Instructor, Physical Education for Men. (1965)
- Robert L. Blair, Ph.D. University of Illinois
Professor, English (Part-Time). (1946)
- Paul G. Bodine, M.A. Washington University
Assistant Professor, Art. (1966)
- Homer L. Booher, M.A. University of Illinois
Instructor, Speech Correction. (1966)
- Fred J. Bouknight, Ed.D. Columbia University
Professor, Music. (1959)
- Wendell E. Boutwell, M.S.L.S. University of Illinois
Instructor, Library. (1968)
- Sherry L. Bovinet, M.S. University of Illinois
Assistant Professor, Physical Education for Women.
(On leave, winter quarter, 1968-69) (1966)
- Earl W. Boyd, Ph.D. The University of Iowa
Professor, Instrumental Music.*
(On sabbatical leave, fall and winter, 1968-69) (1947)

- Karen J. Braun, M.F.A.....Temple University
Substitute Instructor, Art. (1968)
- Marvin L. Breig, Ph.D.....University of Oklahoma
Associate Professor, Physics. (1963)
- Lois M. Bronnert, M.S.....Indiana State University
Instructor, Speech Correction and Education. (1968)
- Elmer L. Brooks, Ph.D.....Harvard University
Professor, English. (1956)
- Kenneth L. Brummett, B.S.Ed.¹.....Eastern Illinois University
Faculty Assistant, Life Sciences (Part-Time). (1968)
- Marian L. Buch, M.S.....University of Illinois
Instructor, Home Economics. (1966)
- William F. Buckellew, Ed.D.....University of Arkansas
Associate Professor, Physical Education for Men and Education. (1962)
- John D. Buenker, Ph.D.....Georgetown University
Assistant Professor, History. (1965)
- James Busskohl, M.A.....Southern Illinois University
Assistant Professor, English. (1967)
- S. Clyde Cappon, D.M.A.....Boston University
Associate Professor, Laboratory School. (1968)
- Eugene R. Carey, Ph.D.....The University of Iowa
Assistant Professor, Management. (1968)
- Joseph E. Carey, Ed.D.....Indiana University
Associate Professor, Laboratory School. (1958)
- Robert A. Carey, P.E.D.....Indiana University
Professor, Physical Education for Men. (1953)
- Gerald F. Carr, Ph.D.....University of Wisconsin
Assistant Professor, Foreign Languages. (1968)
- William B. Cash, M.A.....Kent State University
Instructor, Speech. (1964)
- Gloria Ceide-Echevarria, Ph.D.....University of Illinois
Assistant Professor, Foreign Languages. (1965)
- Dayton K. Chase, D.Ed.....University of North Dakota
Associate Professor, Business Education and Secretarial Studies. (1968)
- Carrie C. Chen, M.L.S.....University of Pittsburgh
Instructor, Library. (1968)
- Robert P. Chen, M.L.S.....University of Pittsburgh
Assistant Professor, Library. (1968)
- Yung Ping Chen, Ph.D.....University of Maryland
Associate Professor, Political Science. (1966)
- Frank P. Chizevsky, M.S.....Millikin University
Instructor, Physical Education for Men. (1966)
- Charles L. Christmas, Ph.D.....University of Georgia
Associate Professor, Mathematics. (1965)
- William M. Cloud, Ph.D.....University of Wisconsin
Professor, Physics. (1962)
- H. Logan Cobb, Ph.D.....University of Missouri
Professor, Foreign Languages. (1963)
- Elvis R. Coble, M.Mus.Ed.....University of Colorado
Instructor, Laboratory School. (1968)
- Harold G. Coe, Ph.D.....Purdue University
Associate Professor, Psychology.* (1965)
- Edward P. Colbert, Ph.D.....Catholic University of America
Associate Professor, History. (1968)
- George M. Colby, M.A.....University of Chicago
Assistant Professor, English. (1962)
- Wayne D. Coleman, D.Ed.....Colorado State College
Associate Professor, Industrial Technology.* (1957)
- Dwight Connelly, M.S.....Ohio University
Instructor, English. (1968)

¹ Resigned, September 30, 1968.

- Joseph T. Connelly, Ph.D.....University of Illinois
Associate Professor, Political Science.* (1958)
- Beverly A. Cook, M.A.....Ohio State University
Instructor, Physical Education for Women. (1967)
- Lewis H. Coon, Ed.D.....Oklahoma State University
Associate Professor, Mathematics. (1965)
- Alice M. Cooper, M.S.....University of Illinois
Assistant Professor, Library. (1968)
- George K. Cooper, Ph.D.....University of Michigan
Professor, Business Education and Secretarial Studies.* (1962)
- Edward M. Corley, Ph.D.....Oklahoma State University
Assistant Professor, Economics. (1967)
- Calvin Countryman, D.Ed.....Pennsylvania State University
Professor, Art.* (1945)
- Velma V. Cox, M.Ed.....University of Missouri
Assistant Professor, Laboratory School. (On leave, 1968-69) (1948)
- Delmar Crabill, M.S.....Purdue University
Assistant Professor, Mathematics.
(On sabbatical leave, fall and winter 1968-69) (1963)
- Francis H. Craig, M.S. in Ed.....Southern Illinois University
Assistant Professor, Laboratory School. (1957)
- William J. Crane, Ph.D.....Yale University
Professor, Educational Psychology and Guidance. (1961)
- Laurence E. Crofutt, M.A.....Indiana University
Assistant Professor, Botany. (1967)
- Joyce S. Crouse, M.S.....Southern Illinois University
Assistant Professor, Home Economics Education.* (1968)
- Richard L. Crouse, M.A.....University of Wisconsin
Assistant Professor, Foreign Languages. (1966)
- George L. Cunningham, Ph.D.....University of California, Berkeley
Professor, Chemistry. (1961)
- Carleton E. Curran, Ph.D.....University of Wisconsin
Associate Professor, History. (1966)
- Rex V. Darling, Dir. P.E.....Indiana University
Assistant Professor, Physical Education for Men. (1945)
- M. Marise Daves, Ed.D.....New York University
Professor, Physical Education for Women. (1955)
- Joyce E. David, B.S.....University of Illinois
Faculty Assistant, Physical Education for Women. (1968)
- Garret W. DeRuiter, M.F.A.....Southern Illinois University
Assistant Professor, Art. (1965)
- Bernard J. Derwort, Ph.D.....St. Louis University
Professor, Mathematics. (1964)
- Helen Devinney, A.M.....Columbia University
Assistant Professor, Home Economics. (1943)
- Alphonso J. DiPietro, Ph.D.....George Peabody College for Teachers
Professor, Mathematics.* (1959)
- Martha J. Doemelt, M.S.Ed.....Eastern Illinois University
Substitute Instructor, Laboratory School. (1968)
- Ernest E. Dolson, M.S.....Indiana State University
Assistant Professor, Mathematics and Education. (1968)
- Donald Dolton, M.A.....Oklahoma State University
Assistant Professor, English. (1966)
- Earl Doughty, Ph.D.....Southern Illinois University
Associate Professor, Faculty for Professional Education. (1963)
- Dale D. Downs, Adv.C.....University of Illinois
Assistant Professor, Laboratory School. (On sabbatical leave, 1968-69) (1963)
- Martha I. Drew, M.Ed.....University of Illinois
Assistant Professor, Management. (1958)
- Richard A. Dulka, B.A.....St. Benedict's College (Kansas)
Assistant Professor, Foreign Languages. (1968)
- Leonard Durham, Ph.D.....University of Illinois
Professor, Zoology. (1955)

- Genevra Dvorak, M.S. in Ed. Eastern Illinois University
Instructor, English. (1964)
- Hannah N. Eads, M.S. in Ed. Eastern Illinois University
Assistant Professor, Laboratory School. (1961)
- K. C. Eapen, Ph.D. University of Colorado
Associate Professor, English. (1965)
- David W. Ebdon, Ph.D. University of Maryland
Assistant Professor, Chemistry. (1968)
- John E. Ebinger, Ph.D. Yale University
Assistant Professor, Botany. (1963)
- Donald R. Eddy, M.Ed. University of Southern Mississippi
Instructor, Physical Education for Men. (1968)
- Snowden L. Eisenhour, Ph.D. University of Illinois
Associate Professor, Physics. (1961)
- Gladys W. Ekeberg, Ph.D. University of Wisconsin
Professor, English. (1945)
- Margaret L. Ekstrand, A.M.L.S. University of Michigan
Faculty Assistant, Library. (Part-Time) (1942)
- E. Duane Elbert, Ph.D. Indiana University
Assistant Professor, History. (1966)
- John E. Elder, B.A. Wichita State University
Assistant Professor, English. (1968)
- Aline R. Elliott, M.S. The University of Iowa
Assistant Professor, Physical Education for Women. (1944)
- Charles A. Elliott, Ed.D. University of Missouri
Professor, Industrial Arts and Technology.
(On sabbatical leave, fall quarter, 1968-69) (1945)
- Jerry W. Ellis, Ph.D. Oklahoma State University
Assistant Professor, Chemistry. (1966)
- Walter L. Elmore, M.A. University of Kentucky
Assistant Professor, Physical Education for Men-Education. (1948)
- Carl E. Emmerich, D.Ed. The Pennsylvania State University
Associate Professor, Art. (1962)
- Ruth Erckmann, M.A. University of South Dakota
Assistant Professor, Mathematics. (1963)
- John R. Ericksen, B.S.Ed. Eastern Illinois University
Instructor, Laboratory School. (1967)
- Clifford H. Erwin, D.Ed. Indiana University
Associate Professor, Industrial Arts-Education. (1956)
- Robert J. Eudeikis, M.S. in Ed. Illinois State University
Assistant Professor, Physical Education for Men. (1962)
- Clifford L. Fagan, Ph.D. The University of Iowa
Professor, Marketing.* (1949)
- Douglas C. Fairbanks, M.A. Michigan State University
Instructor and Coordinator of Off-Campus Elementary Student Teaching. (1967)
- Frances D. Falen, M.S.Ed. Kansas State University
Instructor, Laboratory School. (1968)
- John R. Faust, Ph.D. University of North Carolina
Associate Professor, Political Science. (1966)
- Audrey Fedor, B.S.
Faculty Assistant, Library. (Part-Time) (1954)
- Max B. Ferguson, Ph.D. The University of Iowa
Professor, Zoology. (1950)
- M. Lorraine Flower, Ph.D. Wayne State University
Associate Professor, Physical Education for Women. (1965)
- Thomas W. Floyd, Ed.D. University of Illinois
Associate Professor, Faculty for Professional Education. (1967)
- C. Dan Foote, Ph.D. University of Illinois
Assistant Professor, Chemistry. (1965)
- John P. Ford, Ph.D. Ohio State University
Assistant Professor, Geography and Geology. (1966)

- Melvin O. Foreman, Ph.D. University of Chicago
Professor, Chemistry. (1946)
- Paul Foreman, Ph.D. University of Illinois
Assistant Professor, Zoology. (1966)
- Clifton N. Foster, Ed.D. University of Nebraska
Assistant Professor, Faculty for Professional Education. (1966)
- Delbert D. Foust, Adv.C. University of Illinois
Assistant Professor, Laboratory School. (1964)
- Ewell W. Fowler, Ed.D. University of Missouri
Professor, Industrial Arts and Technology. (1941)
- Frank A. Fraembs, M.S. University of Illinois
Assistant Professor, Zoology. (1964)
- Frances A. Freeman, M.A. Northwestern University
Instructor, Theater Arts. (1968)
- Betty J. Fuller, M.S. Alabama College
Instructor, Physical Education for Women. (1965)
- Richard C. Funk, Ph.D. University of Kansas
Assistant Professor, Zoology. (1965)
- Fred J. Furman, M.B.A. Stanford University
Assistant Professor, Management. (1968)
- E. G. Gabbard, Ph.D. The University of Iowa
Professor, Theater Arts.* (1947)
- Lucina P. Gabbard, M.A. State University of Iowa
Instructor, English. (1968)
- Pauline Galbreath, M.S.L.S. University of Illinois
Instructor, Library. (1967)
- Walter C. Garland, Ph.D. Ohio State University
Professor, Administration and Supervision. (1968)
- Donald P. Garner, Ph.D. Wayne State University
Professor, Speech.* (1963)
- Mary L. Gaskill, Adv.C. University of Illinois
Assistant Professor, Laboratory School. (1963)
- Luther R. Gibson, B.S. in Ed. Eastern Illinois University
Faculty Assistant, Physics. (On leave 1968-69) (1959)
- James F. Giffin, Ph.D. Northwestern University
Professor, School of Business. (1947)
- Michael A. Goodrich, Ph.D. Pennsylvania State University
Associate Professor, Zoology. (1964)
- Timothy D. Gover, M.S. University of Illinois
Assistant Professor, Management. (1963)
- Louis M. Grado, Ph.D. The University of Iowa
Professor, Faculty for Professional Education. (1955)
- Helen R. Graves, M.S. University of Wisconsin
Assistant Professor, Business Education and Secretarial Studies. (1966)
- Grant G. Gray, Ph.D. University of South Dakota
Assistant Professor, Botany. (1966)
- Carl K. Green, Ed.D. University of Houston
Associate Professor, Educational Psychology and Guidance. (1958)
- Marguerite E. Green, M.P.H. University of Minnesota
Assistant Professor, Health Education. (1958)
- Norma C. Green, M.Ed. University of Southern Mississippi
Instructor, Physical Education for Women. (1966)
- William E. Green, Ph.D. Ohio State University
Professor, Management.* (1966)
- Charles R. Gregg, M.Ed. University of Illinois
Instructor, Business-Education. (1966)
- L. Joan Gregg, B.S.Ed. Illinois State University
Faculty Assistant, Laboratory School. (1968)
- Johanne F. Grewell, M.S.L.S. University of Illinois
Instructor, Library. (1966)
- Raymond Griffin, D.Ed. Colorado State College
Associate Professor, Laboratory School. (1958)

- Jerry Griffith, Ph.D. University of Illinois
Associate Professor, Speech Correction. (1966)
- Waldo Grigoroff, M.S. in Ed. University of Illinois
Assistant Professor, Laboratory School. (1961)
- Dennis C. Gross, M.S.Ed. Southern Illinois University
Assistant Professor, Accounting. (1966)
- Laris A. Gross, M.A. University of Michigan
Assistant Professor, Laboratory School. (1963)
- William H. Groves, Ph.D. The University of Iowa
Professor, Physical Education for Men. (On sick leave) (1951)
- John C. Guckert, Ph.D.¹ The Ohio State University
Assistant Professor, Faculty for Professional Education. (1968)
- Gary L. Gueldner, M.S.Ed. Eastern Illinois University
Instructor, Accounting. (1967)
- Paul O. Gurholt, M.S. University of Wisconsin
Assistant Professor, Laboratory School. (1955)
- Ken E. Hadwiger, Ph.D. University of Oklahoma
Assistant Professor, Speech. (1964)
- Lavern M. Hammand, Ph.D. University of Illinois
Professor, History. (1957)
- Julian J. Hamerski, Ph.D. University of the Pacific
Associate Professor, Chemistry. (1963)
- Carol F. Hamilton, M.S. Eastern Illinois University
Instructor, Speech Correction. (1968)
- Robert R. Hancock, M.S. Southern Illinois University
Assistant Professor, Mathematics-Education. (1965)
- Barbara Hanson, B.S. Indiana University
Faculty Assistant, Laboratory School. (Part-Time) (1968)
- Robert Y. Hare, Ph.D. The University of Iowa
Professor, School of Music. (1965)
- Stanley G. Harris, B.A. University of Missouri
Assistant Professor, Foreign Languages. (1968)
- Dorothy M. Hart, Ph.D. The University of Iowa
Professor, Physical Education for Women. (1947)
- Betty R. Hartbank, M.S. University of Illinois
Assistant Professor, Library. (1956)
- Fred Hattabaugh, M.S. in Ed. Eastern Illinois University
Assistant Professor, Laboratory School. (1965)
- Helen L. Haughton, M.S. University of Illinois
Assistant Professor, Home Economics. (1956)
- Edith M. Hedges, M.S. University of Wisconsin
Instructor, Home Economics. (1966)
- Frank H. Hedges, M.S. University of Illinois
Instructor, Zoology. (1965)
- Giles L. Henderson, M.S. Montana State University
Instructor, Chemistry. (1966)
- Robert E. Hennings, Ph.D. University of California, Berkeley
Associate Professor, History. (1962)
- Julia M. Henry, M.A.² The University of Iowa
Assistant Professor, English. (1966)
- James A. Herauf, M.S. Southern Illinois University
Assistant Professor, Health Education. (1965)
- Billy J. Heyduck, M.F.A. University of Illinois
Assistant Professor, Art. (1966)
- George M. Hicks, M.M. Louisiana State University
Assistant Professor, Vocal Music. (1966)
- Gretchen Hieronymus, D.Ed. University of Illinois
Associate Professor, Music Education. (1960)
- Albert R. Hinson, M.F.A. Miami University
Instructor, Art. (1965)

¹ Beginning December 3, 1968.

² Deceased, October 25, 1968.

- Dan M. Hockman, M.S. in Ed. Eastern Illinois University
Instructor, History-Social Studies-Education. (1965)
- Mildred S. Hofacker, M.A. Western Reserve University
Instructor, Speech. (1956)
- Arnold J. Hoffman, M.S. University of Illinois
Assistant Professor, Chemistry. (1943)
- Arthur C. Hoffman, M.B.A. University of Wisconsin
Assistant Professor, Accounting. (1966)
- Bertrand P. Holley, M.A. Northwestern University
Assistant Professor, Management. (1946)
- Charles A. Hollister, Ph.D. University of Pennsylvania
Professor, Political Science. (1967)
- Janet M. Hooks, Ph.D. University of Illinois
Assistant Professor, Economics. (1963)
- Richard L. Hooser, M.S. University of Illinois
Assistant Professor, Health Education. (1965)
- Jon J. Hopkins, Ph.D. Pennsylvania State University
Professor, Speech. (1956)
- Judith Ann Hopkins, B.A. Butler University
Faculty Assistant, Physical Education for Women. (1965)
- Stephen M. Horak, Ph.D. University of Erlangen
Assistant Professor, History. (1965)
- Kathleen M. Howell, Ph.D. The Ohio State University
Associate Professor, Home Economics and Education. (1967)
- Nai-chao-Hsu, Ph.D. Washington University
Associate Professor, Mathematics. (1966)
- Daniel E. Hughes, M.A. Boston College
Assistant Professor, English and Education. (1967)
- Lawrence B. Hunt, Ph.D. University of Wisconsin
Assistant Professor, Zoology. (1967)
- Ralph R. Hunt, M.A. Indiana University
Instructor, English. (1966)
- John G. Husa, Ph.D. University of Chicago
Associate Professor, Botany. (1966)
- Robert W. Hussey, D.Ed. Colorado State College
Associate Professor, Physical Education for Men. (1966)
- Virginia W. Hyett, A.M. University of Missouri
Assistant Professor, Art. (1944)
- Bill V. Isom, M.S. in Ed. Southern Illinois University
Assistant Professor, Library. (1964)
- Ann E. Jackson, D.Ed. Arizona State University
Associate Professor, Laboratory School. (1958)
- Abdul J. Jawad, Ph.D. University of Chicago
Visiting Lecturer, Sociology-Anthropology. (1968)
- Charles H. Johnson, J.D. University of Wisconsin
Associate Professor, Management. (1967)
- Dorothe L. Johnson, Adv.C. University of Illinois
Assistant Professor, Physical Education for Women. (1968)
- June Johnson, D.M.A. University of Illinois
Assistant Professor, Vocal Music. (1960)
- Ronald D. Johnson, M.S. Northern Illinois University
Instructor, Marketing. (1968)
- Barbara J. Joley, B.S.Ed. University of Illinois
Faculty Assistant, Laboratory School. (1968)
- George H. Jones, D.Phil. Oxford University
Associate Professor, History. (1966)
- Robert W. Jordan, Ph.D. Washington University
Assistant Professor, Chemistry. (1966)
- Robert H. Karraker, Ph.D. Iowa State University
Associate Professor, Chemistry. (1967)

- Tom Katsimpalis, Ed.D.Colorado State College
Associate Professor, Physical Education for Men. (1959)
- John H. Keiser, Ph.D.Northwestern University
Assistant Professor, History. (1965)
- John J. Kelleher, Ph.D.University of Pittsburgh
Associate Professor, English. (1964)
- Leo L. Kelly, Ph.D.Purdue University
Associate Professor, Foreign Languages. (1968)
- Nancy O. Keppler, M.S.University of Illinois
Instructor, Home Economics. (Part-Time) (1968)
- William J. Keppler, Ph.D.University of Illinois
Assistant Professor, Zoology. (1965)
- Rhoderick E. Key, M.Mus.Ed.Southern Illinois University
Assistant Professor, Laboratory School. (1966)
- Gary E. Kilgos, M.S.Southern Illinois University
Instructor, Marketing. (On leave, 1968-69) (1966)
- Ha Poong Kim, Ph.D.Boston University
Assistant Professor, Philosophy. (1967)
- Paul F. Kirby, Ph.D.University of Pittsburgh
Associate Professor, Foreign Languages. (1964)
- Walter A. Klehm, Ed.D.University of Missouri
Professor, Industrial Arts and Technology. (1938)
- Judd Kline, Ph.D.University of Minnesota
Professor, English. (1948)
- Henry W. Knapp, Ph.D.University of Nebraska
Associate Professor, Faculty for Professional Education. (1965)
- Verne B. Kniskern, Ph.D.University of Michigan
Professor, Zoology. (1950)
- Cary I. Knoop, M.F.A.University of Illinois
Assistant Professor, Art. (1953)
- Raymond L. Koch, Ph.D.University of Minnesota
Assistant Professor, History. (1966)
- Daniel J. Koenig, M.S.Florida State University
Assistant Professor, Sociology-Anthropology. (1968)
- Douglas Koertge, M.S. in Ed.Eastern Illinois University
Instructor, Theater Arts. (1966)
- Lloyd L. Koontz, M.A.University of Arkansas
Assistant Professor, Mathematics. (On sabbatical leave, 1968-69) (1963)
- Fethi M. Kopuz (Bachelor's)Faculty of Letters, Istanbul, Turkey
Lecturer, Instrumental Music. (1967)
- Bruce Kraig, M.A.University of California
Substitute Assistant Professor, History. (1968)
- Eugene G. Krehbiel, Ph.D.Kansas State University
Associate Professor, Zoology. (1963)
- James W. Krehbiel, Ph.D.Indiana University
Assistant Professor, Music Theory, History and Literature. (1965)
- Claire E. Krukenberg, M.A.University of Illinois
Substitute Assistant Professor, Mathematics. (1968)
- June M. Krutza, Ph.D.Ohio State University
Associate Professor, Art. (1952)
- Carol C. Ku, M.L.S.University of Pittsburgh
Instructor, Library. (1967)
- Carol H. Kuo, M.A.University of Pittsburgh
Instructor, English. (1966)
- Oren F. Lackey, M.S.University of Illinois
Assistant Professor, Botany. (1963)
- Richard R. LaCroix, M.A.Wayne State University
Assistant Professor, Philosophy. (1968)
- Jane Lahey, M.S.Ed.University of Illinois
Assistant Professor, Management. (1957)
- Thomas H. Lahey, Ed.D.University of Virginia
Associate Professor, Laboratory School-Psychology. (1966)
- Jon M. Laible, Ph.D.University of Illinois
Assistant Professor, Mathematics. (1964)

- Bert A. Landes, M.A.T.Colorado State University
Instructor, Botany—Zoology—Education. (1967)
- Floyd A. Landsaw, M.S. in Ed.Eastern Illinois University
Assistant Professor, Laboratory School. (1965)
- Harry R. Larson, Ed.D.Colorado State College
Associate Professor, Faculty for Professional Education.
(On sabbatical leave, winter and spring, 1968-69) (1960)
- Herbert Lasky, M.A.New York University
Assistant Professor, History. (1966)
- Abdul Lateef, Ph.D.Southern Illinois University
Assistant Professor, Political Science. (1968)
- Richard W. Lawson, M.S.L.S.Western Reserve University
Instructor, Library. (On leave, 1968-69) (1964)
- Ronald M. Leathers, M.S.Indiana State University
Instructor, English-Education. (1965)
- John W. LeDuc, M.S.University of Utah
Assistant Professor, Mathematics. (1965)
- Glenn Q. Lefler, Ph.D.Indiana University
Professor, Physics.* (1946)
- Brenda R. Lehmann, B.S.Ed.Eastern Illinois University
Faculty Assistant, Laboratory School. (Part-Time) (1967)
- Roland Leipholz, Ed.D.University of Michigan
Associate Professor, Art. (1955)
- Patrick M. Lenihan, Ph.D.University of Wisconsin
Assistant Professor, Economics. (1967)
- Maurice C. Libbey, M.S.Columbia University
Instructor, Library. (1967)
- Thomas J. Libby, M.A.University of Minnesota
Instructor, Art and Education. (1967)
- James O. Link, Ph.D.Cornell University
Assistant Professor, Theater Arts. (1968)
- John W. Linn, M.A.San Diego State College
Instructor, Art. (1967)
- Inez B. Livingston, Ph.D.Ohio State University
Associate Professor, Psychology. (1968)
- Jerome B. Long, Ph.D.**1.Fordham University
Assistant Professor, Philosophy. (1966)
- Arthur J. Looby, Ed.D.University of Missouri
Associate Professor, Psychology. (1959)
- Walter S. Lowell, Ed.D.Michigan State University
Professor, Physical Education for Men. (Sabbatical leave, summer, 1969) (1961)
- Fred W. MacLaren, Ph.D.University of Oklahoma
Associate Professor, Faculty for Professional Education. (1965)
- Alastair M. MacLennan, M.F.A.Art Institute of Chicago
Substitute Assistant Professor, Art. (1968)
- John N. Maharg, D.Ed.University of Illinois
Associate Professor, Vocal Music.* (1958)
- Arch Richard Mallard, III, M.A.North Texas State University
Instructor, Speech Correction. (1968)
- Elwyn L. Martin, Ph.D.University of Michigan
Associate Professor, Geography and Geology. (1956)
- Jacinto C. Martinez, M.S.East Texas State University
Instructor, Zoology. (1966)
- Thomas O. Maruna, M.B.A.Ohio University
Instructor, Marketing. (1968)
- Fred J. Marzan, M.M.University of Michigan
Assistant Professor, Instrumental Music. (1967)
- John W. Masley, Ed.D.Pennsylvania State University
Professor, Physical Education for Men. (1952)
- Merrilie Mather, Ph.D.Boston University
Professor, English. (1951)

**1 For winter, spring, and summer quarters, 1968-69.

- Gerhard C. Matzner, Ph.D. Cornell University
Professor, Administration and Supervision. (1955)
- David J. Maurer, Ph.D. The Ohio State University
Assistant Professor, History. (1962)
- Paul W. Mausel, Ph.D. University of North Carolina
Assistant Professor, Geography and Geology. (1965)
- Jaime A. Maya, Ph.D. University of Arizona
Assistant Professor, Zoology. (On leave, 1968-69) (1966)
- William J. McCabe, M.A. The University of Iowa
Assistant Professor, Physical Education for Men. (1962)
- Beryl F. McClerren, Ph.D. Southern Illinois University
Associate Professor, Speech. (1964)
- Frances W. McColl, M.A. Columbia University
Assistant Professor, English. (1957)
- Glenn A. McConkey, Ph.D. The University of Iowa
Professor, Economics.* (1958)
- James S. McDonald, B.A. University of Alberta
Faculty Assistant, English. (1967)
- Walter H. McDonald, Ph.D. University of Illinois
Professor, Geography and Geology and Education. (1958)
- John F. McElligott, M.A. New York University
Assistant Professor, History. (1967)
- Joyce A. McIntosh, B.S.Ed. Eastern Illinois University
Faculty Assistant, Laboratory School. (1968)
- Donald L. McKee, M.A. University of Illinois
Assistant Professor, Laboratory School. (1961)
- F. Raymond McKenna, Ed.D. Harvard University
Professor, Faculty for Professional Education. (1953)
- Jerry McRoberts, M.A. University of Illinois
Instructor, Art. (On sabbatical leave, 1968-69) (1963)
- Robert E. Meier, M.S. Southern Illinois University
Assistant Professor, Management. (1964)
- W. Kay Metcalf, M.S. in Ed. Eastern Illinois University
Instructor, Physical Education for Women. (1965)
- Roy A. Meyerholtz, M.A. University of Illinois
Assistant Professor, Mathematics. (On sabbatical leave, 1968-69) (1961)
- Elizabeth Michael, Ph.D. Université Laval
Professor, Foreign Languages. (1930)
- Martin M. Miess, Ph.D. Universitaet Innsbruck
Professor, Foreign Languages.* (1956)
- Beverly B. Miller, M.S. University of Illinois
Instructor, Library. (1967)
- Charles E. Miller, Jr., B.S.Ed. Eastern Illinois University
Faculty Assistant, Physics. (1967)
- Frank A. Miller, B.A. Swarthmore College
Assistant Professor, History. (1965)
- William D. Miller, M.A. University of Illinois
Assistant Professor, English. (On leave, 1968-69) (1963)
- Estel L. Mills, M.Ed. University of Nebraska
Instructor, Physical Education for Men. (1967)
- L. E. Miner, M.A. Michigan State University
Assistant Professor, Speech Correction. (On sabbatical leave, 1968-69) (1963)
- William D. Miner, Ph.D. Indiana University
Professor, History. (1950)
- Al R. Moldroski, M.A. Michigan State University
Instructor, Art. (On sabbatical leave, 1968-69) (1963)
- Donald L. Moler, Ph.D. University of Kansas
Professor, Educational Psychology and Guidance.* (1951)
- Edward O. Moll, Ph.D. University of Utah
Assistant Professor, Zoology. (1968)
- Helen M. Moody, M.S. Springfield College
Instructor, Physical Education for Women and Education. (1962)
- Betty J. Moore, M.A. University of Nevada
Assistant Professor, Laboratory School. (1968)

- James R. Moore, M.S.Southern Illinois University
Assistant Professor, Marketing. (1967)
- Mildred D. Morgan, M.A.Columbia University
Assistant Professor, Laboratory School. (1946)
- Herbert O. Morice, Ed.D.University of Houston
Associate Professor, Psychology. (1967)
- Betty D. Morris, M.Ed.University of Illinois
Faculty Assistant, Laboratory School. (1968)
- John E. P. Mullally, M.A.Middlebury College
Assistant Professor, Foreign Languages. (1968)
- Byron E. Munson, Ph.D.University of Illinois
Professor, Sociology-Anthropology.* (1967)
- Ahmad Murad, Ph.D.University of Wisconsin
Associate Professor, Economics. (1963)
- David H. Murphy, M.S.Indiana State University
Instructor, Botany, Zoology, and Education. (1968)
- Louise Murray, Ph.D.Northwestern University
Professor, English. (1951)
- Jack Murry, Ed.M.University of Illinois
Assistant Professor, Business Education and Secretarial Studies. (1965)
- Jagdish L. Nanda, Ph.D.Indiana University
Associate Professor, Mathematics. (1964)
- Shirley W. Neal, B.S.Ed.Eastern Illinois University
Instructor, English. (1968)
- Allen R. Neff, M.A.Ohio State University
Instructor, English. (1967)
- Herbert P. Neitzel, M.A.Montana State University
Instructor, Art. (1964)
- Ben Newcomb, M.A.Eastern New Mexico University
Assistant Professor, Physical Education for Men. (1965)
- Grant H. Newman, Ed.D.University of Illinois
Assistant Professor, Music Education-Laboratory School. (1967)
- Lawrence Nichols, Ph.D.Duke University
Associate Professor, History. (On sabbatical leave, 1968-69) (1962)
- James F. Nicholson, B.S.Ed.¹Eastern Illinois University
Faculty Assistant, Life Sciences. (Part-Time) (1968)
- Thomas H. Nickels, M.S.Purdue University
Assistant Professor, Economics. (1968)
- Phyllis D. Nies, M.S.University of Illinois
Assistant Professor, Physical Education for Women. (1965)
- Henry C. Nilsen, M.S.University of Illinois
Instructor, Zoology. (1967)
- Janet Norberg, Ph.D.The University of Iowa
Professor, Speech. (1963)
- Harold D. Nordin, M.A.Northern Illinois University
Instructor, Economics. (1967)
- Maynard O'Brien, Ed.D.University of Illinois
Professor, Physical Education for Men.* (1946)
- Geraldina Ortiz-Muniz, Ph.D.Florida State University
Associate Professor, Foreign Languages. (1962)
- Maria M. Ovcharenko, Ph.D.Charles University
Professor, Foreign Languages. (1964)
- Paul D. Overton, Ed.D.Colorado State College
Associate Professor, Educational Psychology and Guidance. (1962)
- Ronald Paap, A.M.Colorado State College
Assistant Professor, Physical Education for Men. (On sabbatical leave, 1968-69)
(1963)
- Raymond F. Padovan, M.S.Southern Illinois University
Instructor, Physical Education for Men. (1966)
- Francis W. Palmer, Ph.D.The University of Iowa
Professor, English. (On sabbatical leave, winter and spring, 1968-69) (1945)

¹ Beginning December 8, 1968

- Gustave C. Pekara, M.A. Eastern Illinois University
Substitute Instructor, Mathematics. (1968)
- J. Robert Pence, Ed.D. University of Illinois
Professor, Music Education.* (On sabbatical leave, spring, 1969) (1951)
- Stuart L. Penn, Ph.D. Yale University
Professor, Philosophy.* (On sabbatical leave, winter, spring, and summer,
1968-69) (1960)
- Harry E. Peterka, Ph.D. University of Kansas
Professor, Zoology. (1947)
- LeRoy Peterson, Ph.D. State University of Iowa
Professor, Faculty for Professional Education. (1967)
- Nicholas C. Petridis, Ph.D. University of Chicago
Associate Professor, Mathematics. (1966)
- Charles E. Pettypool, M.A. The Ohio State University
Assistant Professor, Mathematics. (1957)
- Gerald Pierson, M.S. in Ed. Eastern Illinois University
Assistant Professor, History-Social Sciences-Education. (1963)
- Harold O. Pinther, M.S. University of Wisconsin
Assistant Professor, Physical Education for Men. (1954)
- Edward L. Pisoni, M.F.A. Carnegie Institute of Technology
Instructor, Theater Arts. (1967)
- Raymond A. Plath, Ph.D. University of Wisconsin
Professor, Economics. (1946)
- Frances M. Pollard, Ph.D. Western Reserve University
Associate Professor, Library. (1963)
- George G. Poulos, B.A. Lake Forest College
Faculty Assistant, Life Sciences. (Part-Time) (1968)
- Dalias A. Price, Ph.D. University of Wisconsin
Professor, Geography and Geology.* (1958)
- Van D. Psimitis, M.S. Southern Illinois University
Instructor, Management. (1964)
- Ruth S. Queary, M.S. in Ed. Eastern Illinois University
Assistant Professor, Mathematics. (1961)
- Anola E. Radtke, M.M. Indiana University
Associate Professor, Laboratory School. (1964)
- Mushfequr Rahman, Ph.D. McGill University
Associate Professor, Mathematics. (1967)
- Paladugu V. Rao, M.S.L.S. University of Illinois
Instructor, Library. (1968)
- Hugh C. Rawls, Ph.D. University of Alabama
Professor, Zoology. (1956)
- Shirley N. Rawls, M.A. Eastern Illinois University
Instructor, History. (Part-Time) (1968)
- Mary Jo Read, Ph.D. University of Wisconsin
Professor, Geography and Geology. (1965)
- John J. Rearden, Ph.D. Oklahoma State University
Associate Professor, Psychology. (1968)
- Rosemary Reece, M.S.Ed. University of Missouri
Assistant Professor, Laboratory School. (1968)
- Claudia J. Richardson, M.S.Ed. Eastern Illinois University
Instructor, School of Elementary and Junior High School Teaching. (1968)
- Jack J. Richardson, Ph.D. Southern Illinois University
Professor, Health Education.* (1965)
- Rachael G. Richardson, M.S. in Ed. Eastern Illinois University
Assistant Professor, English. (1963)
- Bill T. Ridgeway, Ph.D. University of Missouri
Associate Professor, Zoology. (1966)
- Harland A. Riebe, Ed.D. University of Colorado
Professor, Health Education. (1950)
- Garland T. Riegel, Ph.D. University of Illinois
Professor, Zoology.* (1948)

- Helen J. Riley, M.S. in Ed.....Illinois State University
Assistant Professor, Physical Education for Women. (1965)
- Lawrence A. Ringenberg, Ph.D.....The Ohio State University
Professor, Mathematics. (1947)
- William G. Riordan, Ph.D.....Western Reserve University
Professor, Physical Education for Men. (1964)
- John L. Roberts, Ph.D.....The University of Iowa
Associate Professor, Management. (1965)
- James Robertson, D.Ed.....University of Illinois
Professor, Music-Education. (1956)
- Kathryn W. Robertson, M.S. in Ed.....Eastern Illinois University
Instructor, English. (1965)
- Dale L. Robey, Ed.D.....Indiana University
Associate Professor, Educational Psychology and Guidance. (1967)
- E. Ann Roderick, B.S. in Ed.....Eastern Illinois University
Faculty Assistant, Library. (Part-Time) (1966)
- Roger D. Roderick, M.S.....University of Illinois
Instructor, Economics. (On leave, 1968-69) (1965)
- Donald L. Rogers, M.S.....Syracuse University
Assistant Professor, Laboratory School. (On sabbatical leave, 1968-69) (1963)
- George W. Rommel, Ph.D.....Northwestern University
Professor, English. (1953)
- Jerome J. Rooke, M.S.....Northern Illinois University
Assistant Professor, Accounting. (1965)
- Charles Clyde Rosenbaum, M.B.A.....Ohio University
Instructor, Accounting. (1968)
- Paul F. Ruddell, M.S.....Purdue University
Instructor, Physics. (1967)
- Al G. Rundle, M.A.....University of Denver
Assistant Professor, Speech. (1963)
- Charles G. Russell, M.A.....Southern Illinois University
Assistant Professor, Speech and Education. (1965)
- Betty G. Ruyle, M.A.....East Carolina College
Substitute Instructor, Laboratory School. (1965)
- Brian A. Salchert, M.F.A.....University of Iowa
Instructor, English. (1967)
- George P. Sanders, M.M.....Yale University
Assistant Professor, Keyboard Music. (1964)
- Karen J. Sanders, M.M.....University of Wisconsin
Instructor, Keyboard Music. (1966)
- Frank E. Schabel, B.A.....State University of New York at Buffalo
Faculty Assistant, Laboratory School. (1967)
- Lahron H. Schenke, Ed.D.....Teachers College, Columbia University
Associate Professor, Faculty for Professional Education. (1963)
- Frederick R. Schram, Ph.D.....University of Chicago
Assistant Professor, Zoology. (1968)
- John J. Schuster, M.S.....University of Illinois
Assistant Professor, Instrumental Music. (1964)
- Eileen P. Schutte, D.Ed.....Northern Illinois University
Associate Professor, Business Education and Secretarial Studies. (1967)
- Colonel W. Scott, B.S.....Marshall University (W.Va.)
Instructor, Physical Education for Men. (1968)
- Mary E. Scott, M.S. in L.S.....Columbia University
Assistant Professor, Library. (1948)
- William W. Scott, Ph.D.....University of Michigan
Professor, Botany.* (1968)
- Phillip M. Settle, M.F.A.....University of Illinois
Assistant Professor, Laboratory School. (1957)
- Carl N. Sexton, P.E.D.....Indiana University
Associate Professor, Health Education. (1966)
- Glenn H. Seymour, Ph.D.¹.....University of Illinois
Professor, History. (1929)

¹ Retired November 30, 1968.

- Maurice D. Shepherd, M.A.T. Indiana University
Instructor, Chemistry, Physics, and Education (1967)
- Terry R. Shepherd, M.S. in Ed. Eastern Illinois University
Instructor, Laboratory School. (On leave, 1968-69) (1966)
- Robert V. Shuff, Ph.D. University of Minnesota
Associate Professor, Administration and Supervision.* (1964)
- Carl E. Shull, Ph.D. The Ohio State University
Professor, Art. (1947)
- Bryan Shuster, M.A. Northeast Missouri State Teachers College
Instructor, Industrial Technology. (1968)
- Henry Silverstein, M.L.S., M.A. New York University
Assistant Professor, English. (1965)
- Calvin N. Smith, Ph.D. Purdue University
Assistant Professor, Speech. (1965)
- Catherine A. Smith, D.Mus. Florida State University
Professor, Keyboard Music.* (1949)
- Malcolm D. Smith, M.B.A. Bowling Green State University
Instructor, Management. (1968)
- Norman D. Smith, M.S.T. University of Florida
Instructor, Chemistry. (On leave, 1968-69) (1965)
- P. Scott Smith, Ph.D. Cornell University
Professor, Physics. (1953)
- Richard L. Smith, Ph.D. University of Texas
Assistant Professor, Botany. (1965)
- Robert J. Smith, Ph.D. The University of Iowa
Professor, Chemistry. (1955)
- Ruby M. Smith, Ph.D. Purdue University
Professor, Home Economics. (1967)
- V. Carolyn Smith, M.N. Western Reserve University
Assistant Professor, Health Education. (1952)
- Robert C. Snyder, M.M. Indiana University
Assistant Professor, Instrumental Music. (1967)
- Margaret Soderberg, Ph.D. Washington University
Associate Professor, Political Science. (1962)
- Robert B. Sonderman, Ed.D. University of Missouri
Professor, Industrial Arts and Technology. (1956)
- Roland D. Spaniol, Ph.D. University of Iowa
Associate Professor, Management. (1960)
- Kenneth J. Spencley, Ph.D. University of Illinois
Assistant Professor, English. (1966)
- Henry A. Stackhouse, Ed.D. University of Missouri
Associate Professor, Psychology. (1960)
- Jane Stackhouse, B.S. University of Arkansas
Faculty Assistant, Library. (Part-Time) (1966)
- Sandra L. Staley, B.S.Ed. Eastern Illinois University
Faculty Assistant, Library, Laboratory School. (1968)
- Ray V. Stapp, D.Ed. Pennsylvania State University
Associate Professor, Art. (1964)
- Sidney R. Steele, Ph.D. The Ohio State University
Professor, Chemistry.* (1947)
- M. Lee Steinmetz, Ph.D. Brown University
Professor, English. (1959)
- Robert W. Sterling, M.S. in Ed. Eastern Illinois University
Assistant Professor, History. (1956)
- Verne A. Stockman, Ed.D. Michigan State University
Professor, Faculty for Professional Education.
(On sabbatical leave, fall and winter quarters, 1968-69) (1955)
- Gayle G. Strader, M.Ed. University of Illinois
Instructor, Laboratory School. (1965)
- Clifford E. Strandberg, Ed.D. Texas A&M University
Associate Professor, Industrial Arts and Technology. (1965)
- Charles T. Strein, M.A.T. Purdue University
Assistant Professor, Economics. (1968)

- Marian H. Stromquist, Ed.D. University of Kansas
Associate Professor, Faculty for Professional Education. (1966)
- Frieda S. M. Stute, Ph.D. University of Illinois
Associate Professor, Sociology-Anthropology. (1966)
- Jack R. Sublette, M.A. University of Illinois
Instructor, English. (1968)
- Daniel R. Sullivan, M.L.S. University of Oregon
Instructor, Library. (1968)
- Robert N. Sullivan, M.A. Murray State College
Instructor, Business Education and Secretarial Studies. (1964)
- Francis E. Summers, M.S. in Ed. Southern Illinois University
Instructor, School of Elementary and Junior High School Teaching. (1965)
- L. Donald Sundheim, M.A. University of Minnesota
Instructor, Foreign Languages. (1968)
- Charles Switzer, Ph.D. Michigan State University
Associate Professor, English. (1966)
- Donald Swope, M.S. Columbia University
Instructor, Library. (1964)
- Mary Ruth Swope, Ed.D. Columbia University
Professor, Home Economics. (1962)
- P. Rex Syndergaard, Ph.D. St. Louis University
Professor, History.* (1956)
- Henry A. Taitt, M.S. University of Delaware
Assistant Professor, Physics. (1965)
- Ellwood R. Tame, Ph.D. University of Denver
Associate Professor, Speech. (1965)
- Virginia Tate, M.Ed. University of Missouri
Assistant Professor, Laboratory School. (1952)
- Carlos R. Taylor, Ed.D. Florida State University
Associate Professor, Faculty for Professional Education. (1968)
- Frank S. Taylor, Ph.D. Boston University
Assistant Professor, Philosophy. (1965)
- Dean A. Teel, Ed.D. Texas A&M University
Associate Professor, Industrial Technology. (1967)
- Francis L. Teller, M.A. Teachers College, Columbia University
Assistant Professor, Physical Education for Men. (1963)
- James E. Thayer, M.A. Indiana University
Assistant Professor, Sociology-Anthropology. (1968)
- Lea M. Thompson, M.A. Teachers College of Columbia University
Visiting Lecturer, Speech Correction. (1968)
- Neil A. Thorburn, Ph.D. Northwestern University
Assistant Professor, History. (1965)
- Daniel E. Thornburgh, M.A. The University of Iowa
Assistant Professor, English. (1959)
- Laurence C. Thorsen, M.A. University of Illinois
Visiting Lecturer, Political Science. (1968)
- Wayne L. Thurman, Ph.D. Purdue University
Professor, Speech Correction.* (On sabbatical leave, spring, 1969) (1953)
- Hiram F. Thut, Ph.D. The Ohio State University
Professor, Botany. (1932)
- Robert C. Timblin, M.A. University of Illinois
Assistant Professor, Sociology-Anthropology. (1960)
- Donald F. Tingley, Ph.D. University of Illinois
Professor, History. (1953)
- Jeanne C. Tingley, B.Ed. Eastern Illinois University
Faculty Assistant, Physical Education for Women. (1961)
- Wilma D. Tipword, M.S.Ed. Eastern Illinois University
Faculty Assistant, Library. (1968)
- Donald C. Tracy, M.M. University of Michigan
Substitute Instructor, Instrumental Music. (1968)
- Lynn E. Trank, Ph.D. The Ohio State University
Professor, Art. (On sabbatical leave, spring, 1969) (1952)

- George H. Triplett, M.S.....Oklahoma State University
Assistant Professor, Laboratory School. (1968)
- Charles Tucker, B.S. in Ed.....Eastern Illinois University
Faculty Assistant, Chemistry. (1955)
- Marie N. Tycer, Ph.D.....The Ohio State University
Professor, English. (1961)
- Mary Van Bellehem, B.S.Ed.....Eastern Illinois University
Faculty Assistant, Laboratory School. (Part-Time) (1968)
- Helen VanDeventer, M.S. in Ed.....Eastern Illinois University
Assistant Professor, Foreign Languages-Education. (1960)
- Charles R. Vaughan, M.S. in Ed.....Eastern Illinois University
Instructor, Physical Education for Men. (1965)
- Peter M. Vivona, M.A.....The Ohio State University
Instructor, Instrumental Music. (1967)
- Gustav M. Vogel, Staatsexamen.....University of Munich
Assistant Professor, Foreign Languages. (1967)
- Leyla Waddell, B.S.Ed.....Eastern Illinois University
Faculty Assistant, Library. (Part-Time) (1967)
- Robert C. Waddell, Ph.D.....Iowa State College
Professor, Physics. (1948)
- Paul L. Ward, Ph.D.....Ohio State University
Associate Professor, Educational Psychology and Guidance. (1967)
- Ben P. Watkins, M.A.....Louisiana State University
Assistant Professor, Art. (1964)
- Charles W. Watson, M.A.....Western Kentucky State College
Instructor, Industrial Arts and Technology. (1965)
- Shirley A. Weasel, B.S.....Southern Illinois University
Faculty Assistant, Home Economics. (Part-Time) (1968)
- Robert W. Weidner, Ph.D.....University of Rochester
Associate Professor, Music Theory, History and Literature. (1965)
- Terry M. Weidner, Ph.D.....The Ohio State University
Assistant Professor, Botany. (1964)
- George S. Westcott, Ph.D.....The University of Iowa
Professor, Instrumental Music.**1 (1949)
- Harry Westerhof, M.A.....University of Chicago
Instructor, English. (1968)
- Edwin A. Whalin, Jr., Ph.D.....University of Illinois
Associate Professor, Physics. (1966)
- Robert V. Wharton, Ph.D.....Columbia University
Professor, English. (1956)
- Bruce C. Wheatley, Ph.D.....University of Denver
Assistant Professor, Speech. (1966)
- Joan F. White, Ph.D.....Bryn Mawr University
Assistant Professor, Zoology. (1968)
- Robert D. White, B.S.Ed.....Eastern Illinois University
Substitute Faculty Assistant, Laboratory School. (1968)
- Robert F. White, Ph.D.....University of Pennsylvania
Professor, English.* (1960)
- Wesley Whiteside, Ph.D.....Florida State University
Associate Professor, Botany. (1960)
- L. Stephen Whitley, Ph.D.....Purdue University
Assistant Professor, Zoology. (1963)
- Roger L. Whitlow, M.S.....Illinois State University
Assistant Professor, English. (1967)
- Malcolm C. Whitney, M.F.A.¹.....Kansas University
Instructor, Art. (1968)
- Clarence B. Wible, M.Litt.....University of Pittsburgh
Assistant Professor, English. (1967)
- Mary L. Wigley, B.A.....Oberlin College
Faculty Assistant, Library. (Part-Time) (1967)

**1 For fall and winter quarters, 1968-69.

¹ Beginning December 8, 1968.

- Richard R. Wigley, M.S.Ed.....Southern Illinois University
Assistant Professor, Health Education. (1967)
- Rebecca S. Wild, Ph.D.....University of Michigan
Assistant Professor, English. (1966)
- Carl E. Wilen, M.F.A.....University of Illinois
Instructor, Art. (1965)
- Roger G. Wiley, M.A.....Louisiana State University
Assistant Professor, Speech. (1964)
- Wanda L. Wiley, M.A.....Louisiana State University
Substitute Instructor, English. (1967)
- John F. Williams, B.S.....University of Illinois
Faculty Assistant, Life Sciences. (Part-Time) (1968)
- Larry J. Williams, M.A.....University of Oregon
Assistant Professor, Mathematics. (1964)
- Gilbert E. Wilson, Ph.D.....Southern Illinois University
Associate Professor, Health Education. (1962)
- William K. Wilson, M.S.....Indiana State University
Assistant Professor, English. (1966)
- Robert C. Wiseman, Ed.D.....Indiana University
Assistant Professor, Faculty for Professional Education. (1958)
- Verna D. Wittrock, Ph.D.....University of Illinois
Associate Professor, English. (1966)
- Karen L. Womack, M.S.¹.....Indiana University
Instructor, Physical Education for Women. (1968)
- Leonard C. Wood, Ph.D.....University of Pennsylvania
Associate Professor, History. (1960)
- William G. Wood, Ph.D.....University of Illinois
Professor, Sociology-Anthropology. (1938)
- M. Thomas Woodall, Ph.D.....The University of Iowa
Assistant Professor, Physical Education for Men. (1965)
- Wayne E. Wyler, M.S.....Brigham Young University
Assistant Professor, Accounting. (1965)
- Harriet E. Yingling, Ed.D.....New York University
Professor, Physical Education for Women.* (1968)
- Marina Su-Chin Yu, M.A.....Texas Woman's University
Assistant Professor, Physical Education for Women. (1966)
- Robert Zabka, Ph.D.....Northwestern University
Associate Professor, Faculty for Professional Education. (1964)
- Lorene E. Ziegler, Ed.D.....Columbia University
Professor, Laboratory School. (1947)
- Endre Zongor, M.A.....Western Michigan University
Assistant Professor, Library. (1968)
- Harry Zuger, A.M.....Wayne State University
Instructor, English. (On leave 1968-69) (1965)
- Gary L. Zwicky, D. Mus.A.....University of Illinois
Assistant Professor, Keyboard Music. (1966)

¹ Beginning December 3, 1968.

I. GENERAL INFORMATION

FUNCTION

Since the time of its founding Eastern Illinois University has developed a comprehensive and stimulating curriculum which offers an education in the liberal arts and sciences and in professional areas. The primary aim of the University's program is to provide excellent instruction and an educational environment which will produce broadly educated, responsible citizens who are prepared to serve and to lead in a free society.

RATING

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 13,600.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established the Eastern Illinois State Normal School.

In response to changing demands, Eastern Illinois Normal School became, successively, Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the power of conferring degrees was granted to the institution by the General Assembly. Courses leading to the Bachelor of Education degree were announced in 1920. In 1944 the degree was changed to Bachelor of Science in Education.

Courses leading to the Master of Science in Education degree were announced in 1951; the first master's degrees were conferred July 31, 1952. The master's degree was recognized by the North Central Association of Colleges and Secondary Schools in March, 1953.

In 1954, the Teachers College Board authorized curricula leading to Bachelor of Arts and Bachelor of Science degrees, without preparation for teaching. The first such degree was conferred in June, 1955.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Master of Arts and Master of Science degrees. The first Master of Arts degree was conferred in May, 1963. In the same year, the Teachers College Board approved the establishment of curricula leading to the Bachelor of Science in Business degree. The first such degree was conferred in August, 1964.

In 1964, the Teachers College Board approved the establishment of curricula leading to the Certificate of Advanced Study, which was changed to the Specialist in Education degree in 1965.

In 1965, the Board of Governors (formerly Teachers College Board) approved the establishment of curricula leading to the Bachelor of Science in Industrial Technology degree and the Bachelor of Science in Home Economics degree.

In 1968, the Board of Governors approved the establishment of curricula leading to the degrees Bachelor of Science in Recreation, Master of Business Administration, Bachelor of Music, and Specialist in College Teaching (Mathematics).

BUILDINGS AND GROUNDS

THE CAMPUS

The grounds cover an area of three hundred and sixteen acres.

BURGNER TEN ACRES

A plot of wooded land in Coles County was deeded to the university in 1955 by Mrs. Helen Burgner Douglas of Mattoon in memory of her parents. The site is used for nature study.

ROCKY BRANCH AREA

Through the generosity of Nature Conservancy and an anonymous donor, a tract of 126 acres approximately 26 miles southeast of Charleston was given to the university early in 1967. The area is used mainly for study and research by the students and staff in the Division of Life Sciences.

LIVINGSTON C. LORD ADMINISTRATION BUILDING (OLD MAIN)

The main building houses administrative offices; the library reserve room; and classrooms for the Departments of Psychology and Mathematics. It is named for the university's first president. It was completed in 1899 as the university's first structure.

PEMBERTON HALL

This structure was enlarged in 1962 to accommodate 201 women. It was erected in 1909 as the university's first residence hall. It also houses the Textbook Library.

FRANCIS G. BLAIR HALL

This building is now occupied by the School of Business, the Audio-Visual Center, and the Data Processing Center. It is named for the first director of the training school.

STUDENT SERVICES BUILDING

This building was remodeled in 1968 and currently houses the offices of the Dean of Student Personnel Services, the Dean of Men, Dean of Women, Assistant Dean of Men, and the Assistant Dean of Women. It also houses Central Stores and Duplicating Services.

FLORENCE McAFEE WOMEN'S GYMNASIUM

Formerly Lantz Gymnasium, this building was renamed for the late Dr. McAfee, head of the women's physical education program from 1935 until her retirement in 1962. The building is used exclusively for women's physical education.

SCIENCE BUILDING

This building contains classrooms and laboratories for the Departments of Chemistry, Geography and Geology, and Physics. It was completed in 1939 and remodeled in 1964.

LIFE SCIENCE BUILDING

Housed in this building are the Departments of Botany and Zoology. Associated with the Life Science Building is a complex of greenhouses. The major wing of the building was constructed in 1963, with the Annex added the following year.

THE MARY J. BOOTH LIBRARY

The library is named for Dr. Mary J. Booth, librarian from 1904 to 1945. It was opened in 1950 and is located in the center of the campus. Construction of an addition was completed in 1968.

LINCOLN HALL, DOUGLAS HALL, AND STEVENSON TOWER

Lincoln and Douglas residence halls were opened in September, 1952. Recently completed is the Adlai E. Stevenson Memorial Tower addition which increased the capacity of the complex to approximately 750.

NORTH HOUSE AND SOUTH HOUSE

North House and South House are ranch-type structures used for home management as a part of the home economics curriculum. The Office of Admissions is located in the North House.

ROBERT G. BUZZARD LABORATORY SCHOOL

The campus laboratory school for kindergarten through grade nine was completed in 1958. It is named for the university's second president.

UNIVERSITY UNION

This building contains a cafeteria, the Panther Lair snack shop, a ballroom, lounges, recreation facilities, meeting rooms, and offices. It was completed in 1957. A substantial addition was completed in 1967.

FORD, McKINNEY, AND WELLER HALLS

These three residence halls house a total of 454 women. They are named for former members of the university faculty. The structures were completed in 1958.

UNIVERSITY APARTMENTS

Living facilities for married students are provided in 154 apartment units. They are located on Terrace Lane at the south edge of the campus.

FINE ARTS CENTER

This building houses the School of Music, the Department of Theatre

Arts and the Department of Art. It contains a "little theatre," numerous practice and rehearsal rooms for music, and studios and laboratories.

ANDREWS HALL

This residence hall houses 480 women. It is named for a former faculty member, Dr. Franklyn Andrews, and was opened in 1964.

LAWSON HALL

Completed in 1967, Lawson Hall is a "mirror image" of the nine-story Andrews Hall. It was named for Dr. Elizabeth K. Lawson, Dean of Women from 1939 until her retirement in 1966.

CLINICAL SERVICES BUILDING

This structure houses the Health Service; Reading, Speech and Hearing Clinics; Counseling and Testing Center; and the Department of Speech Pathology and Audiology. It was opened in September, 1964.

BUZZARD HOUSE

The former home of Eastern's second president houses the Assistant Dean of Student Personnel Services and the Director of Financial Aids.

CHARLES H. COLEMAN CLASSROOM BUILDING

This building is named for Dr. Charles H. Coleman, eminent Lincoln scholar and long-time member of the Department of History. The building houses the Departments of Speech, Foreign Languages, English, Health Education, History, Sociology-Anthropology, Economics, Political Science, and Philosophy.

BOOTH HOUSE

This building furnishes offices for the Civil Service Personnel Director, Director of Residence Hall Food Services, the Director of Housing, the Assistant Director of Housing, and the Housing Administrator. The building is a bequest from the late Miss Mary Josephine Booth.

THOMAS HALL

This residence hall was completed in 1963. It houses 438 men and is named for the late Professor S. E. Thomas, long a member of the Social Science faculty.

PHYSICAL PLANT SERVICES BUILDING

This building is located in the far northwest corner of the campus and houses shops for personnel responsible for maintenance and operation of the physical plant.

TAYLOR HALL

This residence hall for 590 men opened in the fall of 1966. It is named for the late Dr. Edson H. Taylor, long a member of the Mathematics Department.

CHARLES P. LANTZ HEALTH, PHYSICAL EDUCATION AND RECREATION BUILDING

Named for the late Dr. Charles P. Lantz, coach and athletic director for 41 years, the building opened in 1966. Features include gymnasium, swimming pool, field house, archery, rifle and pistol ranges, and classrooms.

APPLIED ARTS-EDUCATION CENTER

This building houses the School of Home Economics, the School of Industrial Arts and Technology, and the Faculty for Professional Education. It was completed in 1967.

GREGG TRIAD

The Gregg Triad was completed in 1966 as a dining hall to serve the occupants of Ford, McKinney, and Weller Halls. It is named for Mr. Raymond Gregg, Business Manager at the university from 1934 to 1963.

TELEPHONE AND SECURITY BUILDING

Offices of the Security staff and the equipment and personnel necessary for the operation of the university telephone system are housed in this building, completed in 1966.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of four state universities and colleges under the general jurisdiction of the Board of Governors of State Colleges and Universities. The internal organization at Eastern consists of two major divisions—instruction and administration.

Included within the instruction division are the instructional services (Library, Audio-Visual Center) and the various instructional units. Major instructional units are the Graduate School, College of Letters and Science, School of Elementary and Junior High School Teaching, School of Business, School of Music, School of Health, Physical Education and Recreation, School of Home Economics, School of Industrial Arts and Technology, and the Faculty for Professional Education. A Division of Latin American Studies administers interdisciplinary programs in that field leading to both teaching and non-teaching degrees. A Division of Pre-Medical Studies and a Division of Pre-Engineering Studies administer programs in their respective fields.

The administration division includes student academic services, student personnel services and business services.

FIELDS OF STUDY**BACHELOR OF ARTS***Majors:*

Art
Botany
Chemistry
Economics
English
French
Geography
Geology
German
History
Latin
Latin American Studies
Mathematics

Music
Philosophy
Physical Education
Physics
Political Science
Psychology
Sociology
Spanish
Speech
Speech Pathology and Audiology
Theatre Arts
Zoology

BACHELOR OF MUSIC*Options:*

Performance: (String or Wind; Keyboard; or Vocal)
 Music Theory and Composition
 Music History and Literature

BACHELOR OF SCIENCE*Majors:*

Art	Music
Botany	Philosophy
Chemistry	Physical Education
Economics	Physics
English	Political Science
French	Psychology
Geography	Sociology
Geology	Spanish
German	Speech
History	Speech Pathology and Audiology
Latin	Theatre Arts
Mathematics	Zoology

BACHELOR OF SCIENCE IN BUSINESS*Majors:*

Accounting	Management
Finance	Secretarial
Marketing	

Minor—Institutional Food Management

BACHELOR OF SCIENCE IN EDUCATION*Majors:*

Art	Latin
Botany	Latin American Studies
Business	Manual Arts Therapy
Chemistry	Mathematics
Elementary Education	Music
Elementary Education—Special Education	Physical Education, Men
Elementary Education—Speech Correction	Physical Education, Women
English	Physics
French	Social Science
Geography	Spanish
German	Speech
History	Speech Pathology and Audiology
Home Economics	Theatre Arts
Industrial Arts	Zoology
Junior High School Education	

Minors:

Art
 Biological Science
 Botany
 Business
 Chemistry
 English
 French
 Geography
 German
 Health Education
 History
 Home Economics
 Industrial Arts
 Journalism

Latin
 Library Science
 Mathematics
 Music
 Physical Education
 Physics
 Psychology
 Russian
 Safety and Driver Education
 Social Science
 Spanish
 Speech
 Theatre Arts
 Zoology

BACHELOR OF SCIENCE IN HOME ECONOMICS*Majors:*

Dietetics
 Family Services
 Home Economics in Business

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY*Options:*

Electricity and Electronics
 Light Building Construction
 Metalwork

BACHELOR OF SCIENCE IN RECREATION**MASTER OF ARTS***Majors:*

Economics
 English
 French
 Geography
 History

Mathematics
 Music
 Political Science
 Spanish
 Speech

MASTER OF BUSINESS ADMINISTRATION**MASTER OF SCIENCE***Majors:*

Botany
 Chemistry
 Physical Education

Physics
 Speech Pathology and Audiology
 Zoology

MASTER OF SCIENCE IN EDUCATION*Areas of Concentration:*

Art
 Audio-Visual Education

Biological Sciences
 Business Education

Educational Administration
Elementary Education
English
Foreign Languages
Geography
Guidance and Counseling
History
Home Economics

Industrial Arts
Mathematics
Music
Physical Education
Physical Sciences
Social Science
Speech
Speech Pathology and Audiology

*** SPECIALIST IN EDUCATION**

Major Area: Educational Administration

*** SPECIALIST IN COLLEGE TEACHING**

Major Area: Mathematics

DIVISION OF THE YEAR

The university year, September 1 through August 31, consists of four quarters. Three of the quarters, each twelve weeks in length, constitute the traditional academic year, September 1 through May 31. The fourth quarter of ten weeks is offered during the summer months. A graduate term of eight weeks is in session concurrently with the last eight weeks of the summer quarter.

ALUMNI ORGANIZATIONS

Recognizing the contribution a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

THE ALUMNI ASSOCIATION

The Eastern Alumni Association, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one quarter's work here.

Officers of the Alumni Association for 1968-69 are Bob Miller, Springfield, president; Paul Foreman, Charleston, vice-president; and Dorothy Greathouse, Mattoon, secretary-treasurer.

The Executive Committee for the Association is composed of the officers and twelve other members elected for three-year terms. Committee members are Lynn Swango, Monticello; Glen Hesler, Mattoon; Gerald Dunn, Mattoon; Drayton Miller, Clayton, Missouri; Ray Suddarth, Springfield; Pat Pitol, Collinsville; Dave Fields, Danville; Walt Brantley, Springfield; Ben Franklin, Belleville; Irl Schuyler, Windsor; Lewis Linder, Charleston; and Donald Castles, Mattoon.

Alumni have formed chapters of the Eastern Illinois University Alumni Association in several counties of Illinois. These clubs usually meet from one to four times each year with programs designed to keep graduates and former students in touch with each other and with the University.

* Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$4.00 for two years, and \$5.00 for three years.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. Honorary members without vote are the President of the University, the President of the Board of Governors of State Colleges and Universities, the President of the Alumni Association, the Vice President for Business Services, and the Director of Alumni Services.

The Board of Directors of the Foundation consists of nine persons elected from the general membership. The President of the University, the President of the Board of Governors, and the President of the Alumni Association are ex officio members of the Board of Directors.

II. STUDENT LIFE, ACTIVITIES AND SERVICES

LIVING ACCOMMODATIONS

UNIVERSITY POLICY

Single students under the age of twenty-one, other than seniors, are required to live in University-registered housing except when living at home or with relatives or when special permission has been granted in writing by the Director of Housing. University-registered housing does not include apartments or trailers. It is understood that when a student contracts for accommodations in a residence hall, University apartment, or registered housing, he agrees to comply with the rules and regulations governing those living units as well as the rules and regulations for all University students.

The residence halls are closed during the Thanksgiving, Christmas, and Easter recesses, as well as between quarters.

The University is committed to a policy of nondiscrimination in housing with respect to race, religion, and national origin. All University-owned housing, as well as privately-owned housing which is University registered, must be operated in compliance with this policy.

ON CAMPUS HOUSING

Residence Halls. Application for a room in the University residence halls may be made to the Director of Housing prior to acceptance for admission to the University. Application for admission to the University does not constitute an application for housing. Students are encouraged to apply for housing at an early date. Accommodations are available as follows:

WOMEN

Andrews Hall	480
Douglas Hall	195
Ford Hall	152
Lawson Hall	480
Lincoln Hall	197
McKinney Hall	150
Pemberton Hall	201
Weller Hall	152

MEN

Taylor Hall	590
Thomas Hall	438
Stevenson Tower	360

Further information relative to cost of room and board, the annual contract, and the housing security deposit may be found in Section III.

Married Student Housing. Application blanks for the University Apartments may be secured from the Director of Married Student Housing.

The University Apartments comprise 154 units for married students, 100 two-room apartments and 54 one-and-one-half room apartments. The 54 one-and-one-half room apartments are furnished with sofa bed, chair, dinette set, corner table, kitchen efficiency units, drapes, and other items of equipment. Thirty-six of the two-room apartments have a double bed, a chest of drawers, and a nightstand in addition to the same type of furniture as is in the one-and-one-half room apartments. The remaining 64 apartments are larger. Each has a minimum of furnishings consisting of stove, refrigerator, dinette set, arm chair, double bed, and drapes. Families assigned to these apartments will

undoubtedly wish to furnish their own chests of drawers, floor lamps and various other items. Electricity, heat, hot water, television antenna outlets, and washing machines are furnished by the University. To be eligible for an apartment a student must be married, living with his family, and enrolled in the University.

A housing security deposit of \$25 is required of all tenants housed in University-owned apartments. When occupancy ceases and all property damages, if any, are satisfactorily accounted for, the deposit is refunded in whole or in part.

OFF-CAMPUS HOUSING

An off-campus registered house is a home in the community which has been approved as meeting the minimum health and safety standards set by the University. A list of registered houses for single students is maintained in the Housing Office. The student is responsible for making arrangements with the householder for a room in the community; however, the University requires a signed agreement between the householder and student.

Married students may secure a list of off-campus apartments and houses at the Office of the Director of Married Student Housing.

GENERAL SERVICES

COUNSELING

The Counseling Center is staffed by professional counselors and clinical psychologists who assist students in matters pertaining to vocational choice, personal and social adjustment, and educational development. Limited psychological services are available without charge.

EMPLOYMENT

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the community. Student employment is contingent upon maintenance of satisfactory academic standing.

INSURANCE

By action of the Board of Governors, each full-time student is assessed a fee for group health and accident insurance administered by the University to supplement services performed by the University Health Service. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available for all four quarters of the year. Students attending spring quarter who do not intend to be enrolled during the summer but who wish summer coverage must apply for this insurance sometime during the spring quarter. Summer quarter insurance is in force until the following registration day.

The group policy provides for all reasonable hospital expense, 80% of surgical or medical fees, and 80% major medical expense up to \$5,000 for any one accident or period of illness.

Information concerning the insurance may be obtained in the Office of Financial Aids.

MEDICAL

The Health Service is located in the Clinical Services Building. It renders

limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the University community.

Services provided by the Health Service are covered by student activity fees.

PLACEMENT

Registration or re-registration with the Placement Office is a requirement for graduation for all degree candidates. The Placement Office seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information about the applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior standing. Graduates who hold a degree other than B.S. in Ed. are eligible for teacher placement services if requirements for a regular teacher's certificate are met. *Graduate Students* may register for placement if they have attended Eastern Illinois University for one quarter and have earned 16 quarter hours of graduate credit toward a master's degree. This credit may include graduate extension courses offered off campus. *Alumni* may re-register by bringing their credentials up to date and paying a fee of \$2.

Industrial and Business Placement Services are available to students who have attained senior standing. The Placement Office furnishes the candidate's credentials to prospective employers and offers other services fundamental to their selection of employees.

TESTING

Testing services are available to University students. Aptitude and intelligence tests as well as interest and personality tests are administered without charge. Consultative services are also available to area school personnel desiring to establish testing programs.

The Testing Service operates a 1230 IBM test scoring machine with an attached 534 IBM card punch. Area schools may arrange for the scoring of standardized tests for a nominal charge. For detailed information contact the Coordinator of Testing Services.

INSTRUCTIONAL SERVICE

AUDIO-VISUAL SERVICES

The Audio-Visual Center in Blair Hall operates as an educational service for faculty and students. Audio-visual teaching materials such as films, filmstrips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Limited preview services are available. Slides, transparencies, photographic copies, and other graphic materials may be produced for individual instructors. Consultative service is offered to university faculty, prospective teachers, and to schools in the area.

BOOK RENTAL AND SALES

Basic textbooks for courses are rented to students through the Textbook Library. Book rent is paid at the time of registration.

Rented textbooks must be returned in satisfactory condition by noon of the day following the last day of the quarter. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc. A fine of \$1 per book is imposed if the student's textbook record is not clear by the close of the quarter.

LIBRARY SERVICES

Booth Library. The Booth Library is the general library of the University and contains a book stock of over 160,000 cataloged volumes besides government documents, microtexts, maps, and pamphlets chosen to support the educational effort of the University. A sizeable addition to the original building was opened in 1968. All books in the library are on open shelves except those that are rare.

In the central area of the first floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the first floor. Here the students find the answer to many of their problems. There are periodicals, indexes and abstracts available as well as a collection of reference books. Special facilities such as seminar, group study, conference, and faculty study rooms and equipment for reading microtext materials are also provided on this floor. The current issues and the bound volumes of periodicals are kept on the second floor on open stacks, arranged alphabetically by title.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Service. Over 5,000 recordings for leisure-time enjoyment of music are available in the Music Room. A browsing collection for general reading and a publisher's exhibit of textbooks for elementary and secondary schools are also provided. Art exhibits, arranged by the Art Department, are shown in the Paul Turner Sargent Art Gallery on the ground floor of the building.

Laboratory School Library. This library, a part of the general University library system, houses a collection of materials suitable for the elementary and junior high school levels. Besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in the collection and with its method of operation.

Reserve Library. Books which departments request for reserve circulation are located in the Reserve Library in Old Main. The Reserve Library is a part of the general university library system. Service is available daily according to a posted schedule.

READING IMPROVEMENT

Each quarter, the Reading Clinic offers non-credit courses in speed reading designed to improve speed, comprehension, and general study habits. Classes meet at various times during the day so that each student may choose a section which meets at a convenient hour. Courses are free to regularly enrolled students. Materials used in the courses are furnished without charge. Application for admission should be made early in the quarter at the Reading Clinic on the second floor of the Clinical Services Building.

In addition to conducting its University reading program, the clinic accepts

some children, usually from elementary schools in the area, for corrective work in reading. Junior, senior, and graduate students taking advanced work in reading obtain practical experience by working with these children under supervision.

SPEECH AND HEARING DIAGNOSIS AND CORRECTION

The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvement of speech and language disorders. The services are available without charge to university students, Laboratory School pupils, and children and adults in east central Illinois. Junior, senior, and graduate students in courses of speech and hearing obtain required clinical practice by working with these cases under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

STUDENT-FACULTY BOARDS

Student members of the student-faculty boards are appointed by the Student Senate; faculty members are appointed by the Office of the Dean, Student Personnel Services. The vice president of the Student Senate and the Dean, Student Personnel Services, or his representative, are ex officio members of all boards. The boards are as follows: Apportionment, Artist Series, Lecture Series, Men's Athletic, Publications, Radio, and Safety and Traffic.

ACTIVITY FEES

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. The allocation of funds from the activity fees is made by the Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

ARTISTS SERIES

Each year the University offers as cultural entertainment individuals and groups of national reputation in programs of music, theatre, and dance.

A student-faculty Artists Series Board arranges and administers the series, with due regard for the preferences and needs of students. In most instances students gain admission by presenting a properly validated ID card; for other programs, a reduced price is offered. Faculty members and area residents may purchase individual or series tickets.

LECTURE SERIES

The University offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board composed of faculty and students. Various departments also engage lecturers in fields of specialized interest. No admission fee is charged.

UNIVERSITY UNION ACTIVITIES

The University Union houses a cafeteria, snack bar, game rooms, bowling alley, ballroom, lounges, and offices for the Director, Assistant Director, Director of the University Union Food Services, and the Student Senate. A committee of the Student Activities Board, assisted by the Union Director, plans activities for the students such as dances, receptions, recitals, billiards, bridge, chess contests, and instruction.

Organizations wishing to use University facilities may schedule the facilities at the University Union office.

FORENSICS

Through the Department of Speech, students of undergraduate standing are offered the opportunity to participate in intercollegiate tournament experience in extemporaneous speaking, oratory, debate, and discussion.

Members of the forensic teams engage in competition with speakers from the major colleges and universities. Opportunity is also provided for members of the teams to appear on radio and television programs throughout the Illinois-Indiana area and before civic clubs and high school assemblies.

Affiliation is maintained with several regional and national forensic organizations including: Illinois Intercollegiate Debate League, Illinois Intercollegiate Oratorical Association, Interstate Oratorical Association; American Forensic Association; and Pi Kappa Delta, the national honorary forensic fraternity.

INTRAMURAL SPEECH ACTIVITIES

Each year the Department of Speech offers any undergraduate student the opportunity to participate in an Intramural Speech Contest. This activity is designed for critical analysis and further student development in meaningful speech events.

STUDENT SPEAKER BUREAU

A Student Speaker Bureau is coordinated through the Department of Speech. Students may register with the bureau, requesting they be listed in a publication sent to service clubs and schools in the area. The bureau affords the student the opportunity to appear in actual speaking situations to improve their communication ability.

THEATRE

The Department of Theatre Arts sponsors a variety of activities. A full-length play and a full-length oral interpretation program are presented each quarter as public performances. Each week a student-directed workshop program is produced; this activity includes short plays, skits, readings, and demonstrations.

Any student in the University is eligible to participate in the activities of the department. Practical experience in all phases of theatre can be obtained.

The department conducts its activities in a theatre which seats 420 people.

RADIO

Several activities provide an introduction to the broadcast media. Each week students help produce radio programs that are broadcast by stations in Illinois. The campus radio station, WELH, operated entirely by students, broadcasts more than 50 hours per week. A Radio Club meets weekly to produce special radio programs, such as hootenannies, promotional announcements, etc., and to introduce the student to the skills and theories of broadcasting. The activities mentioned above are open to all full-time students regardless of major. Interested students may contact WELH.

MUSIC

Music organizations provide opportunities for musical growth through

activities which in turn contribute to the life of the University. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, symphonette and an orchestra. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform.

THE PAUL TURNER SARGENT ART GALLERY

The Paul Turner Sargent Art Gallery in Booth Library brings to the campus exhibitions selected from various areas of the visual arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles—a collection is usually on display for a three-week period. Special lectures and films related to the exhibitions are scheduled from time to time. This activity provides important original works for study in art classes.

PUBLICATIONS

Student publications are a semi-weekly newspaper, the *Eastern News*; a literary magazine, the *Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty advisor. Staff positions on the *News* are open to all qualified students.

The *Warbler* is issued annually as a pictorial record of the University year. A student editorial staff, supervised by a faculty advisor, is responsible for the publication. All qualified students are eligible for the staff.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, the *Vehicle*, and the *Warbler*.

WOMEN'S ATHLETICS

The Department of Physical Education for Women sponsors the Women's Athletic Association which is open to all women enrolled as regular students. Any student becomes a member of the *Women's Athletic Association* by participating in one activity. Any active member is eligible to vote, to attend the annual banquet, to travel to other colleges for competition, and to participate in the sports-days held at the University. There are fifteen activities during the year: apparatus, archery, badminton, baitcasting, bowling, canoeing, fencing, folk dancing, square dancing, golf, hockey, modern dance, softball, swimming, and tennis. Basketball, bowling, and volleyball are organized on an intramural basis, with teams from residence halls, sororities, and private homes competing. The modern dance concert and the synchronized swimming show are special events in which any student may perform. Two awards are given by the Women's Athletic Association to students who participate actively in the athletic program for women.

INTRAMURAL ATHLETICS

The Department of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students. The objective of this program is to make recreation and physical development available to every student.

INTERCOLLEGIATE ATHLETICS

The program of intercollegiate athletics is dedicated to a belief that athletic competition promotes individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals to the end that personal growth and character will result. In addition, the acquisition of certain professional techniques and skills particularly for men

who plan to coach are objectives of the athletic program. In furtherance of these purposes, the University is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics, and the National Collegiate Athletic Association.

The University program of intercollegiate athletics includes football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The University adheres to the intercollegiate athletics policies of the North Central Association of Colleges and Secondary Schools.

STUDENT ORGANIZATIONS

STUDENT SENATE

The Student Senate is a representative body for all students. The officers and members are elected by popular vote.

The Senate is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration. It takes responsibility for such events as Parents Weekend, and campus elections.

DEPARTMENTAL CLUBS

Accounting, Amateur Radio, Elementary and Jr. High Men, Botany, Economics, English, French, Geology, German, History, Home Economics, Industrial Arts, Latin, Library Science, Mathematics, Men's Physical Education, Music Educators National Conference, Pre-Medical Association, Psychology, Radio-TV, Russian, Sociology-Anthropology, Spanish, Student Affiliate of National Art Education Association, Student Affiliate Section of the American Chemical Society, Student Affiliate of the Society for the Advancement of Management, Student Chapter of the American Marketing Association, Student Section of the American Institute of Physics, University Council for the United Nations, Women's Physical Education, Zoology Seminar.

RELIGIOUS ORGANIZATIONS

Baptist Student Union, Canterbury Club, Christian Science Fellowship, Deseret Club, Fellowship of Christian Athletes, Gamma Delta, Inter-Varsity Christian Fellowship, Newman Community, Roger Williams Fellowship, Student Religious Council, United Campus Ministry, Universal Unitarians, Wesley Foundation.

ATHLETIC ORGANIZATIONS

Varsity Club, Women's Athletic Association.

RESIDENCE HALL COUNCIL AND ASSOCIATION

Each residence hall organizes a council to assist in improving student life in the hall. The Women's Residence Hall Association, which comprises residence hall council presidents and elected representatives from each hall handles matters common to all women's residence halls.

SERVICE ORGANIZATIONS

Alpha Phi Omega, Circle K Club.

SPECIAL GROUPS

Association for Childhood Education, Association of International Students,

Cheerleaders, Council on Human Relations, Eastern Veterans Association, Independent Student Association, Interdepartmental Forum, Pink Panthers, Student Education Association, Student Life Committee, Student Wives' Organization, Women's Off-Campus Organization, Young Democrats, Young Republicans.

CONSULTATIVE COUNCILS

All-University consultative councils: Administration, Instruction, Student Personnel Services.

Consultative councils replacing student-faculty boards: Health and Hospitalization, Music Activities, Speech Activities, Theatre Arts, Women's Athletics.

INTERFRATERNITY COUNCIL

The Interfraternity Council, composed of three members from each fraternity, aids in establishing policies relating to the fraternity system. It cooperates with the Panhellenic Council in planning the annual Greek Week program. The following fraternities are represented:

Alpha Kappa Lambda, Rho Chapter
Alpha Phi Alpha, Eastern Illinois University Colony
Beta Sigma Psi, Mu Chapter
Delta Chi, Eastern Illinois University Chapter
Delta Sigma Phi, Delta Psi Chapter
Phi Sigma Epsilon, Delta Chapter
Pi Kappa Alpha, Zeta Gamma Chapter
Sigma Pi, Beta Gamma Chapter
Sigma Tau Gamma, Alpha Alpha Chapter
Tau Kappa Epsilon, Gamma Omega Chapter

PANHellenic COUNCIL

The Panhellenic Council is composed of two elected representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year. The following sororities are represented:

Alpha Gamma Delta, Beta Iota Chapter
Delta Zeta, Gamma Nu Chapter
Kappa Delta, Delta Beta Chapter
Sigma Kappa, Gamma Mu Chapter
Sigma Sigma Sigma, Alpha Psi Chapter

HONORARY AND PROFESSIONAL FRATERNITIES

Beta Beta Beta, Gamma Theta Chapter: Biological Science
Delta Mu Delta, Tau Chapter: Business Administration
Delta Psi Kappa, Beta Xi Chapter: Women's Physical Education
Delta Sigma Pi, Epsilon Omega Chapter: Business Administration
Delta Sigma Rho, Broadcasting (Speech)
Epsilon Pi Tau, Iota Chapter: Industrial Arts
Gamma Theta Upsilon, Rho Chapter: Geography
Kappa Delta Pi, Beta Psi Chapter: Education
Kappa Mu Epsilon, Illinois Beta Chapter: Mathematics

Kappa Omicron Phi, Alpha Theta Chapter: Home Economics
Phi Alpha Eta, Women's Scholastic Honorary.
Phi Alpha Theta, Epsilon Mu Chapter: History
Phi Beta Lambda, Iota Omicron Chapter: Business and Business Education
Phi Delta Kappa, Delta Omega Chapter: Education
Phi Epsilon Kappa, Beta Zeta Chapter: Men's Physical Education
Phi Mu Alpha Sinfonia, Xi Upsilon Chapter: School of Music
Pi Delta Epsilon, Journalism
Pi Kappa Delta, Illinois Sigma Chapter: Forensics
Pi Omega Pi, Alpha Chi Chapter: Business Education
Pi Sigma Alpha, Delta Psi Chapter: Political Science
Sigma Alpha Eta, Alpha Alpha Chapter: Speech and Hearing Disorders
Sigma Alpha Iota, Epsilon Eta Chapter: School of Music
Sigma Delta Pi, Zeta Eta Chapter: Spanish
Sigma Delta Psi, Epsilon Sigma Chapter: Men's Athletics
Sigma Eta Lambda, Speech
Sigma Tau Delta, Upsilon Gamma Chapter: English

AUTOMOBILE REGISTRATION AND CONTROL

By definition, a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles.

FRESHMAN-SOPHOMORE MOTOR VEHICLE REGULATION

No undergraduate student who has completed less than 89 quarter hours shall possess or operate a motor vehicle in the University community (Charleston Township) during the academic year or during the summer quarter. An exception to this regulation may be made for a freshman or sophomore student who is physically handicapped, or who resides with his or her parents in Charleston Township, or who can demonstrate a critical need for a motor vehicle because of employment or other circumstance.

A request for an exception to the above regulation should be addressed to Dean Donald A. Kluge, Chairman, Freshman Motor Vehicle Regulation Committee, Eastern Illinois University.

REGISTRATION OF VEHICLES

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around the campus to register the vehicle in the Security Office. Registration is free.

After the first week of classes each quarter, the owner of a motor vehicle found parked on the campus without a registration sticker will be charged a \$5 late registration fee.

PARKING PERMITS

Application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$1 or \$2 depending on lot assignment. A permit for the summer session is 50¢.

UNIVERSITY TRAFFIC REGULATIONS

All state and community laws apply on campus. University parking

regulations are in effect until 5:00 p.m. of the last day of examinations of each quarter. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

TRAFFIC PENALTIES

Failure to report a change affecting parking privileges—\$5; Falsification of registration—\$10 and possible referral for disciplinary action; Parking violations, 1st offense—\$1, 2nd offense—\$5, 3rd offense—\$10, 4th offense—loss of campus parking privileges and possible referral for disciplinary action; Moving violations, 1st offense—\$5, 2nd offense—\$10, 3rd offense—\$15, 4th offense—loss of campus parking privileges and possible referral for disciplinary action.

Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration. A student, faculty member, or employee may appeal his case to the Traffic and Safety Committee. Appeal forms may be obtained in the Security Office.

A violator of the freshman-sophomore motor vehicle regulation will be subject to a penalty of \$50 for the first and second offenses and will be automatically suspended from the University for the third offense. A violator may appeal his case to the Appeal Committee of the Freshman-Sophomore Motor Vehicle Regulation.

BICYCLE REGISTRATION AND CONTROL

By definition, a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

REGISTRATION

It is the responsibility of each student, employee, and faculty member operating a bicycle on the campus to register the bicycle in the Security Office. Registration and parking permits are free.

PENALTIES FOR VIOLATION AND NONCOMPLIANCE

Failure to comply with registration requirements—\$1; Failure to use bicycle in conformity with operational provisions—\$1; Violation of parking restrictions—\$1; Fourth offense—possible referral for disciplinary action.

III. STUDENT EXPENSES AND FINANCIAL AID

EXPENSES

APPLICATION FEE

A non-refundable charge of \$15 must accompany an application for admission as an undergraduate.

QUARTERLY FEES*

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees for quarters listed below must be paid on or before registration day of each quarter. (A student who takes any combination of ten-week and eight-week courses will be regarded as a full-time quarter student for purposes of determining his fees.)

For Residents of Illinois—Undergraduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	<i>Summer Qtr. 1969</i>	<i>Fall Quarter</i>	<i>Winter Quarter</i>	<i>Spring Quarter</i>	<i>Summer Qtr. 1970</i>
Registration Fee	\$40.00	\$100.00	\$ 75.00	\$ 60.00	\$10.00
Service Fee	49.00*	51.00*	51.00*	51.00*	51.00*
Total	\$89.00	\$151.00	\$126.00	\$111.00	\$61.00

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

<i>Fee (Per Quarter Hour)</i>	<i>Summer Qtr. 1969</i>	<i>Fall Quarter</i>	<i>Winter Quarter</i>	<i>Spring Quarter</i>	<i>Summer Qtr. 1970</i>
Registration Fee	\$4.50	\$ 8.50	\$6.25	\$5.00	\$.90
Service Fee	2.75**	2.75**	2.75**	2.75**	2.75**
Total	\$7.25	\$11.25	\$9.00	\$7.75	\$3.65

For Residents of Illinois—Graduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	<i>Summer Qtr. 1969</i>	<i>Beginning Fall, 1969</i>
Registration Fee	\$40.00	\$ 65.00
Service Fee	49.00*	51.00*
Total	\$89.00	\$116.00

* Student Activity Fee—\$10, \$12 beginning Fall Quarter; Bond Revenue Building Fee—\$18.25; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4.
 ** Bond Revenue Building Fee—\$1.50, Textbook Rental Fee—\$.90, Grants-in-Aid Fee—\$.35.
 A part-time student may purchase a student activity ticket for the regular price of \$10, or \$12 beginning with the Fall Quarter of 1969. He is not permitted to purchase health and accident insurance.

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

<i>Fee (Per Quarter Hour)</i>	<i>Summer Qtr. 1969</i>	<i>Beginning Fall, 1969</i>
Registration Fee	\$4.50	\$5.50
Service	2.75**	2.75**
Total	\$7.25	\$8.25

For Out-of-State Students

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	<i>Summer Qtr. 1969</i>	<i>Beginning Fall, 1969</i>
Registration Fee	\$200.00	\$200.00
Service Fee	49.00*	51.00*
Total	\$249.00	\$251.00

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

<i>Fee (Per Quarter Hour)</i>	<i>Summer Qtr. 1969</i>	<i>Beginning Fall, 1969</i>
Registration Fee	\$16.50	\$16.50
Service Fee	2.75**	2.75**
Total	\$19.25	\$19.25

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state registration fee unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a women student either under or over the age 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

SUMMER GRADUATE TERM FEES FOR 1969

Fees described below are payable on or before registration day for the eight-week summer graduate term:

For Residents of Illinois

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

* Student Activity Fee—\$10, \$12 beginning Fall Quarter; Bond Revenue Building Fee—\$18.25; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4.
 ** Bond Revenue Building Fee—\$1.50, Textbook Rental Fee—\$.90, Grants-in-Aid Fee—\$.35.
 A part-time student may purchase a student activity ticket for the regular price of \$10, or \$12 beginning with the Fall Quarter of 1969. He is not permitted to purchase health and accident insurance.

Registration Fee	\$30.00
Service Fee	36.50*

Total\$66.50

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

Registration Fee	\$3.75 per quarter hour
Service Fee	3.00 per quarter hour**

Total\$6.75 per quarter hour

For Out-of-State Students (See earlier definition of out-of-state student)

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

Registration Fee	\$150.00
Service Fee	36.50*

Total\$186.50

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

Registration Fee	\$18.75 per quarter hour
Service Fee	3.00 per quarter hour**

Total\$21.75 per quarter hour

EXTENSION FEES

Extension fees are \$9.00 per quarter hour with an additional charge of \$3.00 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

MISCELLANEOUS FEES AND CHARGES

Late Registration Fee. An extra fee of \$15 is charged to a student who registers after the registration dates shown in the catalog or who fails to pay all fees on registration day. This fee is non-refundable. No registrations are accepted after the sixth calendar day following the first day of classes.

Residual Testing Fee. Students applying for admission must furnish test scores administered by the American College Testing Program (ACT). Students failing to provide such test scores will be subject to a residual testing fee of \$1 in addition to the routine charge for the regularly scheduled group administration of the American College Test.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. The fee of \$15 for graduate degree candidates and \$10 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation for a particular quarter is registration day of that quarter.

* Student Activity Fee—\$7.50, Bond Revenue Building Fee—\$13.50, Textbook Rental Fee—\$7.50, Health Insurance Fee—\$5, Grants-in-Aid Fee—\$3.

** Bond Revenue Building Fee—\$1.70, Textbook Rental Fee—\$.95, Grants-in-Aid Fee—\$.35.

Transcript Fee. The University will furnish one transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional 50c fee will be charged for each extra copy of the transcript prepared at the same time. Transcripts will be issued only for students whose university records are clear.

General Library Service Fee. All library materials must be returned and records cleared by the end of each quarter. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations, and a service charge of not less than \$1 is added for failure to clear records at the end of the quarter. In addition, students who fail to clear library records are denied library privileges.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by noon following the last day of the quarter. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc.

Chemistry Breakage Ticket. A deposit of \$3 is required for a breakage fee in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the University Union. The cost per lock is \$2.45.

Charges for Materials. Fees are paid for materials used in certain courses in art and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses and elective projects in industrial arts courses numbered 323, 308, 409, and 447.

RESIDENCE HALL CHARGES

Housing Security Deposit. A housing security deposit of \$25 must accompany an application for accommodation in the University residence halls. The deposit will be held by the University as security for payment for any loss of or damage to University property and the non-fulfillment of the contract. The deposit will be refunded upon request if the application is cancelled in writing prior to the date specified in the residence hall contract. After the specified date, refund of the deposit will be made according to the terms of the contract.

Board and Room Charges. During the fall, winter, and spring quarters, charge for board and room in University residence halls is \$300 per quarter, if paid in full in one payment, or \$302 per quarter if paid in installments on dates set by the University. This payment includes towels and linens, with laundering service, and a room telephone; Sunday evening meals and meals during vacation periods are not included.

Charges for board and room during the summer of 1969 are as follows:

Undergraduate Quarter, June 9 to August 18.....\$250.00

Graduate Term, June 23 to August 18.....\$200.00

For workshops, institutes, clinics, camps or conferences of less than eight or ten weeks the charge will be made at the daily rate of:

Board in University Union \$3.95 a day (3 meals per day)
 Room in designated residence hall 2.55 a day

\$6.50 a day

All contracts will be for board and room and no variation will be permitted.

With the exception of the summer quarter, it is understood that a student engages a room for the entire University academic year (September through May) unless he has an off-campus assignment (teaching or internship) or unless he completes the requirements for graduation before the end of the year. Waivers will be granted by the Director of Housing in these instances.

Most rooms are designed for double occupancy; there are a few single rooms in most halls and a limited number of triples. Four- and six-person suites are available in the Adlai E. Stevenson Memorial Tower. Details concerning residence hall occupancy and installment payments are found in the residence hall contract or are available from the Office of the Director of Housing.

The University reserves the right to increase residence hall rates, if necessary, at the beginning of an academic year with the understanding that at least sixty days notice will be given prior to the opening of the year in which the increase takes effect.

Late Payment Fee. A fee of \$5 is charged if a residence hall payment is not paid on the dates set by the University unless special permission is granted by the Director of Housing.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the quarter involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a quarter by completing the procedure described in Section V and if the initiation and completion of the withdrawal is made through the Dean of Men or Dean of Women during the first ten calendar days following the first day of classes for the quarter, the Registration Fee will be refunded. There will be no refund of the Service Fee. If the withdrawal is initiated at a later date, there is no refund of any fees. The official receipt must accompany the request for refund.

Military Duty. A student called for active duty or induction into the Armed Forces prior to the 36th calendar day following the first day of classes (excluding the Christmas break) will be given a refund of all fees except the Service Fee.

PRE-REGISTRATION

Non-Enrollment. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear for classes, all

fees will be refunded if notice has been given in writing to the Assistant Dean, Registration and Advisement, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the Registration Fee will be refunded.

Change in Load. A student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded the difference between his Registration Fee and the course fee for those courses constituting his part-time load; there will be no refund of the Service Fee.

DENIED ADMISSION

If a student pre-registers and pays his fees prior to the regular registration date but is subsequently denied admission to the University, all fees will be refunded.

BOARD AND ROOM

There will be no refund of room rent except upon cancellation of the residence hall contract, in accordance with the terms thereof, because of withdrawal from the University for one of the following reasons: (1) after completion of the academic year with the intent of not returning to the hall and upon proper clearance through the Housing Office; (2) action by the University for academic reasons, including graduation; (3) health reasons as certified by the Director of Health Service to the Director of Housing; (4) verified emergency reasons as submitted in writing to and approved by the Housing Office, including call for active duty in or induction into the Armed Forces.

Room deposits are forfeited for residents who withdraw from the University prior to their contracts, which run for a full academic year (September through May). A student who withdraws from the University after the first full day of regularly scheduled classes will forfeit the entire quarter's room charge, providing the residence halls are not at normal capacity on the tenth calendar day following the first day of classes. No refunds will be made until all financial obligations to the University are cleared. Unused board fees will be refunded.

FINANCIAL AIDS

STATE SCHOLARSHIPS

Holders of state scholarships listed below are exempt from payment of the registration fee, activity fee, and graduation fee. They are required to pay the bond revenue building fee, textbook rental fee, health insurance fee, and grants-in-aid fee. They must also pay fees and charges for supplies and materials assessed in certain courses. Holders of most monetary scholarships and grants administered by the Illinois State Scholarship Commission are exempt from payment of the registration fees and all service fees. They, too, are obligated to pay fees assessed for certain courses and any charges for supplies and materials.

The holders of these scholarships must meet the admissions requirements of the University. The scholarships (with the exception of the Military Scholarship) is forfeited if the holder is not enrolled within five calendar days after

the opening of the school term or if he withdraws from the University. Holders of these scholarships may be granted a leave of absence not to exceed two years because of illness, the necessity of earning funds to defray expenses while in school, or military duty. Application for leave of absence on a Military Scholarship must be made to the Director of Veterans Services. All other leave applications must be made to the Director of Financial Aids.

Full state scholarships are valid for four calendar years, thus permitting use of the scholarship for graduate study if students have accelerated their undergraduate program by attending summer school. In some cases students are awarded the balance of partially used scholarships.

Military Scholarships must be registered with the Director of Veterans Services to be valid for use. All other state scholarships must be filed with the Office of Financial Aids to be valid.

Teacher Education Scholarships. In order to be eligible for consideration for this scholarship a student must rank in the upper one-half of his graduating class and signify his intention to prepare to teach in the public schools of Illinois. The high school principal certifies to the County Superintendent of Schools, each year before March 1, the name and address of each student entitled to receive this scholarship. The County Superintendent then certifies to the Superintendent of Public Instruction all the names and addresses of students submitted by the high school principals. The scholarship is issued by the Superintendent of Public Instruction.

Other specialized teacher education scholarships are as follows: Junior College Graduate, issued by junior colleges to their graduates who continue their education; General Educational Development, issued by the County Superintendent of Schools to students who rank high in their G.E.D. qualifying test for a high school diploma; Special Education, issued by the County Superintendent of Schools to students enrolling or enrolled in a Special Education curriculum; Adult Education, initiated through the County Superintendent of Schools and issued by the State Superintendent of Public Instruction to adults 21 years or more of age who desire to complete work for an undergraduate degree in education.

These scholarships are forfeited by an undergraduate who transfers out of a curriculum which leads to a Bachelor of Science in Education degree.

Military Scholarship. Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship, provided he has the required period of service. A veteran discharged after August 11, 1968, must have a minimum of one year's active duty. If discharged prior to this date, he needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Director of Veterans Services. This scholarship may be used concurrently with the GI Bill.

Once initiated, the Military Scholarship runs continuously for four years and automatically terminates at that time unless an extension up to two years is granted under special conditions.

General Assembly Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom shall receive a scholarship to the University of Illinois and the other a scholarship to

any other state-supported university designated by the member. Application is made directly to the legislator who makes the appointment through the Office of the State Superintendent of Public Instruction.

County Scholarship. This scholarship award is made by the County Scholarship Committee of Illinois. High school seniors must indicate that they wish to enter competition for this award in their county at the time they take the American College Testing Examination.

Illinois State Scholarship Commission Scholarships and Grants. In general, the eligibility of an applicant is determined on the basis of (1) his high school academic record, (2) the results of a competitive examination to be conducted by the Commission at an appropriate time during each fiscal year, and (3) financial need. The scholarship is renewable by the Commission annually without further competitive examinations for a total of three academic years or until such earlier time as the student receives a degree normally obtained in four academic years. The grant is based on financial need only. For the monetary value of these awards, see section on State Scholarships. For more information, inquiries may be directed to: Illinois State Scholarship Commission, 730 Waukegan Road, Deerfield, Illinois, 60015.

UNIVERSITY AWARDS

Talented Student Awards. Established by the Board of Governors of State Colleges and Universities to encourage the development of unique student talents. Tuition (registration fees) is waived for students receiving the awards. The awards go primarily to incoming new students who give promise of unique talents in art, athletics, dramatics, forensics, music, broadcasting, and student publications. Nominations for the awards are made by department heads and faculty advisors.

Grants-in-Aid. Eastern offers in excess of 100 grants-in-aid annually to students who show promise or demonstrate a talent in fields which require public presentation of that talent. Among these fields are art, athletics, dramatics, debate, journalism, music, and women's physical education. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grants-in-aid fee.

Foreign Student Scholarship. Established by the Board of Governors of State Colleges and Universities, the award is made to foreign students based on scholastic achievement, academic promise, personal character, and financial need. The registration fee and out-of-state fee are waived for a student receiving the scholarship. Selection of the recipients is made by the Foreign Student Scholarship Committee.

SPECIAL AWARDS

Achievement Fund Scholarship Award. Established in 1965 to provide financial assistance to outstanding students. The award presently goes each year to one or more students who have attained at least sophomore standing and who need at least one more year of study to receive a bachelor's degree. Selection of the recipient, including the determination of financial need, is made by the Financial Grants Committee.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the L. C. Lord Administration Building. The award is made annually to a business major who has completed at least one year of college work with not less than a B average and who is selected by the faculty of the School of Business on the basis of outstanding personal character and interest in the field of business and business education.

Business Alumni Award. Established by the alumni of the School of Business. It is made annually to a junior business major whose personal character, scholastic achievement, and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by the faculty of the School of Business.

Charleston Achievement Award. A scholarship of \$150 made available annually by the Kiwanis and Rotary Clubs of the city. In order to qualify for the award, a student must be a graduate of Charleston High School, be classified as a junior, have a cumulative grade point average of 3.0 or better, have a record of better than average participation in activities, have leadership qualities, and an intention to graduate from Eastern.

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to Eastern's Graduate School and who plans to pursue a career in educational media. The selection committee is composed of representatives of the Faculty for Professional Education, Audio-Visual Services, and the Illinois Audio-Visual Association.

G. B. Dudley Award. Established by Tilford Dudley in memory of his father who was closely associated with the University. The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences: botany, chemistry, physics, and zoology. The recipients are chosen by the heads of these four departments.

Leo J. Dvorak Memorial Award. Established in memory of Dr. Leo J. Dvorak, late Director of the School of Music. The award is presented to a junior music major who shows promise of becoming an outstanding teacher in public school music. Selection of the recipient is made by the faculty of the School of Music.

Ann Frommel Memorial Award. A scholarship for outstanding students in botany, zoology, and chemistry, established by Mr. and Mrs. Albert E. Frommel, Charleston, in memory of their daughter. The award is made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a B average in all academic subjects.

Hugh M. Hefner Scholarship. Supported by the Hugh M. Hefner Fund. One or more disadvantaged students who qualify for federal Educational Opportunity Grants may be given awards as partial fulfillment of matching requirements. Application is made to the Director of Financial Aids after a "Parents' Confidential Statement" has been submitted to the College Scholarship Service.

Hobart F. Heller Scholarship. Established in honor of Dr. Hobart F. Heller, Vice President for Instruction and a member of the Eastern faculty for 36 years, who retired in 1967. The award will go annually to a student who, by reason of scholarship, responsible character, sense of purpose, growth, and service to the University community during his first three years, gives promise of a life of distinguished service and leadership. Selection of the recipient is made by a committee headed by the Dean, Student Personnel Services.

Illinois Congress of Parents and Teachers Scholarships. The Illinois Congress of Parents and Teachers supplies funds each year for scholarships which are awarded to selected students. The qualifications for eligibility are high scholastic standing, good health, and the need of financial aid. The applicant must also signify intention to teach. Application for the scholarship is made to the Director of Financial Aids after a "Parents' Confidential Statement" has been submitted to the College Scholarship Services.

Bobbie King Memorial Scholarship. Established in 1966 by Mr. and Mrs. Karl King of Charleston, Illinois, in memory of their daughter. The award will go annually to a junior or senior demonstrating outstanding achievement in the study of foreign languages.

Charles P. Lantz Scholarship. Established in memory of Dr. Charles P. Lantz, Director of Athletics at Eastern from 1911 to 1952. The award is made annually to one or more persons who will be seniors the following year, who have demonstrated outstanding athletic achievement, who have shown evidence of leadership qualities, and who have demonstrated above-average scholastic ability.

Livingston C. Lord Memorial Scholarship. Established by Alumni Association of the University in memory of Livingston C. Lord, who served as president, 1899-1933. It is the University's highest award for scholarship.

The scholarships are awarded annually at commencement to one or more junior or senior students. The student's character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Isabel McKinney Scholarship. Established in memory of Isabel McKinney, head of Eastern's Department of English from 1922 to 1945. The award goes annually to a person who has demonstrated high scholastic achievement and has the qualifications to enroll in the English graduate program at Eastern. Selection of the recipients is made by the Scholarship Committee of the Department of English.

Winnie Davis Neely Memorial Award. Established by Sigma Tau Delta, national professional English fraternity, in memory of Winnie Davis Neely, a member of the English Department, 1934-1952. An award is made annually to the university student who submits the best manuscript in the literary contest sponsored by the student literary publication and Sigma Tau Delta.

Estelle Ruth O'Brien Memorial Mathematics Scholarship. Established in 1967 by Dr. Maynard O'Brien and his son in memory of their late wife and mother, Estelle Ruth O'Brien. Mrs. O'Brien was a mathematics teacher in the public schools. The award will go annually to a mathematics major enrolled

at Eastern or to a high school graduate who has expressed in writing an intent to enroll as a mathematics major at Eastern. A committee of mathematics faculty will select the recipients.

Emma Reinhardt Award. Established in 1962 by members of Beta Psi Chapter of Kappa Delta Pi in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt, counselor to the chapter for thirty-one years. The award is made annually to the highest ranking junior pursuing the degree of Bachelor of Science in Education.

Irvin L. Sparks Memorial Scholarship. Established in 1966 by friends and colleagues of the late Dr. Irvin L. Sparks, professor of physics at Eastern Illinois University. The award will be made each year to an incoming freshman student who plans to major in physics and who has an outstanding high school scholastic record in that field of study.

Paul Turner Sargent Scholarship Award. Established by the family and friends of the late Paul Turner Sargent, nationally known artist and a 1906 Eastern graduate. The award is made to an art major or minor who has completed at least eighty quarters of course credit.

William Craig Simmons Memorial Award. Established by Mrs. W. C. Simmons, Charleston, in memory of her husband. The award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by faculty members of the School of Business.

Kate Booker Stapp Scholarship. Available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother. Applications are made to the Director of Financial Aids.

Ernest L. Stover Scholarship. Established in honor of Dr. Ernest L. Stover, former head of the Department of Botany. The award goes annually to a botany major of junior or senior classification who has demonstrated scholastic achievement and shows promise as a teacher or research person. Selection of the recipients is made by Department of Botany committee.

Edson H. Taylor Award. Established in honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the Mathematics Department on the basis of excellence of scholarship in mathematics.

Annie L. Weller Award. Established in memory of Miss Annie L. Weller, late Head of the Geography Department. The award is made annually to a graduating senior planning to pursue graduate study prior to a career in teaching. Eligible candidates must be majoring in the humanities, social sciences, or natural sciences and must have demonstrated superior scholarship ability.

Howard DeForest Widger Award. Granted annually by the Alumni Association to a senior English major selected by the faculty members of the English Department. The award is given for outstanding personal character and scholastic achievement in the field of English.

LOANS

The Adelia Carothers Fund. This fund was established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during their junior and senior year. The interest rate is two per cent during enrollment. At termination of enrollment the rate increases to six per cent. The fund is administered by the Dean of Women.

Elementary and Junior High School Student Teaching Loan Fund. This loan fund was established with funds contributed by students of Eastern State High School during World War II. Loans up to \$100 may be made to students who need the funds during their student teaching quarter. No interest is charged when repayment is made within one year. Application must be made to the Director of the School of Elementary Junior High School Teaching.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged. To be eligible, a student must be in residence at the University at least one quarter.

Illinois Congress of Parents and Teachers Loan Fund. In September of 1954 the Illinois Congress of Parents and Teachers established a loan fund of \$1,000. Loans from this fund on either a short or long-term basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within a year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

Illinois Guaranteed Loan Program. The Illinois General Assembly has authorized an Illinois loan program to guarantee student loans made by commercial lenders.

An eligible student who has been accepted for enrollment in college may borrow from a minimum of \$300 to the maximum amounts stated below. There is no age restriction; a minor is eligible to enter into a loan contract and to assume the responsibility for his own indebtedness. Payment must begin no less than nine months after the student either graduates or ceases full-time study.

Maximum Loan Amounts

Freshman year	\$1,000
Sophomore year	1,500
Junior year	1,500
Senior year	1,500
First-year graduate study	1,500

Application forms and additional information about this program are available from participating lending institutions (banks, building and loan associations, and credit unions).

The Florence McAfee Loan Fund. Physical education majors and minors,

alumnae, and staff established this fund in honor of Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Women's Physical Education staff.

National Defense Student Loan Fund. The National Defense Student Loan program was established by Congress in 1958. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan, he must be enrolled as a full-time student or half-time student, and he must meet the academic and social standards set by the University.

The amount of the loan will be determined by the University on the basis of availability of funds and the student's financial need. Application blanks should be obtained from the Director of Financial Aids.

The Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean of Women.

University Loan Fund. To be eligible for a University Loan a student must be of at least sophomore standing with an academic average of at least C. The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student may borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is two per cent during enrollment. At termination of enrollment, the rate increases to six per cent.

The will of the late Dr. W. D. Morgan of Charleston gives to the Student Loan Fund the annual income from approximately \$6,000. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the University by the will of the late John L. Whisnand of Charleston a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount is in trust with the Charleston National Bank.

VETERANS BENEFITS

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1955. The law provides one-and-one-half months benefits per month of service up to a maximum of thirty-six months. Minimum monthly benefits are \$130 for a full-time student.

Public Laws 815 and 634. Veterans with 30% or more disability are eligible for training under Public Law 815. War orphans may receive training under Public Law 634. Minimum monthly benefits are \$130 for full-time students.

Widows of veterans who died as a result of service and wives of totally disabled veterans are eligible for their husbands' educational benefits.

Applications are processed by the Director of Veteran's Services.

FEDERAL GRANTS

Federal grants, under the provisions of the Higher Education Act of 1965,

are available to students from low-income families. The availability of funds dictates the number of students assisted. Application blanks for financial aid should be obtained from the Director of Financial Aids.

ILLINOIS ORPHANS EDUCATION ACT

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans and children of veterans who are totally and permanently disabled from a service-connected disability. Qualified orphans may receive up to \$150 with which to defray expenses. Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois, or from the Illinois Veterans' Commission, 1000 Broadway, Mattoon, Illinois, 61938.

STATE REHABILITATION PROGRAM

The University cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained at the Counseling Center, the local office of the Division of Vocational Rehabilitation (412-416 North 19th Street, Mattoon, Illinois, 61938), or the student's home area DVR office.

STUDENT EMPLOYMENT

See Section II.

IV. ADMISSION, REGISTRATION, AND ADVISEMENT

ADMISSION AND READMISSION

Policies

The general policy of the University is to admit during the regular academic year those students who rank in the upper fifty per cent of their high school class and who achieve satisfactory admission test scores, insofar as facilities permit.

The following general policies apply for admission, beginning with the fall quarter, 1969. The University may announce appropriate changes in closing dates when applicants exceed the number of students who can be accommodated.

BEGINNING FRESHMEN

Any Quarter: A high school graduate who ranks in the upper twenty-five per cent of his high school class, based upon completion of six or more semesters, is granted immediate acceptance upon completion of his application and payment of the required non-refundable application fee.

Fall Quarter: A student who ranks in the upper forty per cent of his high school class, based on six or more semesters of work, and who submits a completed application with the required non-refundable application fee before January 1, 1969, will be notified of his acceptance by February 1. Others who have completed applications and paid the required fee at this point will be notified of deferral or non-acceptance.

A student who ranks in the upper half of his high school class, and who submits a completed application with the required non-refundable application fee by Friday, February 28, 1969, will be notified of his acceptance or deferral by April 1. Others who have completed applications and paid the required fee at this point will be notified of deferral or non-acceptance.

Closing dates for receiving completed applications for fall quarter will be announced in the public press, depending on the date capacity is reached.

Winter and Spring Quarters: A student who ranks in the upper half of his high school class, and who submits a completed application with the required non-refundable fee before the deadline dates, may be considered.

Deadlines for completed applications:

Winter Quarter.....Friday, October 31, 1969

Spring Quarter.....Monday, February 16, 1970

Earlier dates may be announced in the public press if capacity is reached before the dates indicated.

NOTE: Subject to capacity, a limited number of students ranking below the 50th percentile in their high school class and above the 60th percentile will be admitted in any quarter except the fall quarter if they have an ACT composite standard score of 21 or over. Also,

high school graduates out of school one year or more and who have not attended college will be admitted in any quarter, but those ranking in the lowest one-third of their high school class will be admitted on final probation.

Summer Quarter: Applicants will be considered for admission regardless of rank in high school class and achievement on admission test scores. However, a student who ranks in the lowest one-third of his high school class will be admitted only on final probation and must (1) register for a minimum of twelve quarter hours and remain registered for a minimum of twelve quarter hours and (2) must satisfy retention requirements in order to continue in the fall quarter. All applicants for the summer quarter must submit completed applications with the required non-refundable application fee by Friday, May 30, 1969.

OUT-OF-STATE FRESHMAN APPLICANTS

Out-of-state applicants must meet the same admissions requirements as those which must be met by Illinois high school students.

FORMER STUDENTS IN GOOD STANDING

Former undergraduate students who are in good standing and who return to the University after a lapse of one or more quarters must apply for readmission at least one month prior to the official registration day of the quarter in which they intend to enroll. An earlier closing date may be announced in the public press. Applications for readmission may be obtained from the Records Office.

Former graduate students who are in good standing and who return to the University after a lapse of one or more quarters must apply for readmission at least ten calendar days prior to the official registration day of the quarter in which they wish to enroll. Applications for readmission may be obtained from the Records Office or the Office of the Dean of the Graduate School.

TRANSFER STUDENTS

A student who has attended a junior college or another senior college, who has maintained a "C" average in his college work, and who would have met the beginning freshman admission requirements of the University for a particular quarter, may apply for transfer to the University at that particular quarter. Other students may apply for transfer at any quarter after completion of 82 quarter hours (55 semester hours) at a junior or senior college with a "C" average, except that students who rank in the upper ten per cent at the end of one semester or the upper twenty-five per cent after one year of junior college or senior college work may apply for transfer at that time. Transfer students must submit completed applications with the required non-refundable application fee at least one month before the beginning of the quarter in which they wish to enroll. An earlier closing date may be announced in the public press.

SPECIAL STUDENTS

High School Students: Students who have completed the junior year in a

recognized high school, who have fourteen units, who rank in the upper twenty-five per cent of their high school class, and who have the recommendation of their principal may apply to take not more than two courses during the summer quarter preceding their senior year in high school and not more than one course in a regular quarter during their senior high school year. Credits which the student earns under this arrangement are held in escrow and later applied toward graduation at Eastern Illinois University. Students are cautioned that such credit may not be acceptable to, or transferable to, other educational institutions.

Non-graduates of High School: Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as special students to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. Special students may become candidates for a degree by passing the General Education Development Test and obtaining a High School Equivalency Certificate; in this case, only those college courses taken after passing the examination may be counted toward graduation.

Provisional admission of applicants who are not high school graduates may be granted upon presentation of fifteen acceptable units from a recognized high school with a recommendation of the high school principal; in this case, requirements for high school graduation must be completed during the freshman year.

OTHER CATEGORIES

Students seeking admission under any of the categories named below must be considered by the Committee on Admissions.

Former Students Dropped for Poor Scholarship: Former undergraduate students dropped for poor scholarship must apply for readmission to the Committee on Admissions. Petitions for readmission may be obtained from the offices of the Dean of Women or the Dean of Men. Except where the student has not been dropped before and his grade-point deficit is less than 5 points, he must be out of school one quarter before his application will be considered. In these special cases a recommendation of the University Physician, Dean of Men, or Dean of Women is required to warrant committee consideration. In any event, the student may not be readmitted for the fall quarter.

Transfer Students on Probation: Transfer applicants who are on probation in any institution previously attended, or would be on probation or final probation according to regulations of Eastern Illinois University, may be considered for any quarter except the fall quarter; their admission status will be defined by the Committee on Admission.

Transfer Students Who Have Been Dropped: Transfer applicants who have been dropped from any institution of higher education, or who would have been dropped according to regulations of Eastern Illinois University, must remain out of school for at least one quarter; admission may not be granted in the fall quarter.

Foreign Students: Students from areas other than the United States may be admitted by Committee on Admissions action only.

GRADUATE STUDENTS

See Section VIII. Graduate Study.

Procedures For Applying For Admission

The prospective new freshman applicant should be especially careful and prompt in submitting materials relative to applying for admission to the University. The procedure for admission is as follows:

1. Obtain an application for admission after the fifth semester of high school from:
Director of Admissions
Eastern Illinois University
Charleston, Illinois 61920
2. Complete Parts I and II of the application form and give it to the high school principal or guidance counselor. He will complete the form and return it to the University *after the sixth semester rank is available*.
3. Have a health examination by the family doctor. He will complete the health form, which should then be returned directly to the Director of Health Services.
4. Send the non-refundable fee of \$15 by check or money order made payable to Eastern Illinois University along with the admission fee data card to: Cashier, Business Office, Eastern Illinois University, Charleston, Illinois 61920.
5. Each student applying for admission must submit scores from the American College Testing Program (ACT). Complete information concerning the ACT may be obtained from the high school guidance counselor or principal. It is strongly recommended that this test be taken during the junior year in high school for applicants who desire early notification of acceptance. All test results should be forwarded directly from the testing agency. Scores forwarded from the high school are not acceptable.

Transfer students must file an application for admission and must request the institution or institutions previously attended to forward to the Admissions Office transcripts that include all courses attempted and completed. The request for a transcript should include a request to transmit scores on entrance examination tests. Transfer applicants are required to furnish test scores for the American College Test (ACT).

In addition, prior to consideration, a transfer student not in good standing at his previous institution or institutions must submit a letter to the Admissions Office in which he discusses the reasons for his poor academic record and explains why he is capable of success at this University.

Graduate students should see Section VIII on Graduate Study.

An Official Permit to Enroll is mailed after an application has been processed and completed. The Official Permit to Enroll must be presented at the time the student registers.

Housing applications must be sent to the Director of Housing (see Section II, Living Accommodations) and may be made at any time, even though the application for admission has not been filed. The application for housing does

not constitute an application for admission, nor does the application for admission constitute an application for housing.

Procedures For Applying For Readmission

Former undergraduate students who are in good standing and who return to the University after a lapse of one or more quarters must make application for readmission to the Records Office at least one month prior to the official registration day of the quarter in which they intend to enroll. Students enrolled in the summer quarter need not apply for readmission for the ensuing fall.

Former graduate students who return to the University after a lapse of one or more quarters must make application for readmission to the Records Office or to the Dean of the Graduate School at least ten calendar days prior to the official registration day of the quarter in which they intend to enroll.

Former undergraduate students dropped for poor scholarship must apply for readmission to the Committee on Admissions. Petitions for readmission may be obtained from the offices of the Dean of Women or the Dean of Men. Except where the student has not been dropped before and his grade-point deficit is less than 5 points, he must be out of school one quarter before his application will be considered. In these special cases a recommendation of the University Physician, Dean of Men, or Dean of Women is required to warrant committee consideration. In any event, the student may not be readmitted for the fall quarter.

Cut-Off Dates For Completed Applications

All applications for admission must be on file in the Admissions Office and all requirements for admission must be met by the cut-off date specified for the quarter in which the student wishes to enroll. All applications for readmission of former undergraduate students in good standing must be filed with the Records Office prior to the cut-off date and all petitions for readmission of former students dropped for poor scholarship must be filed with the Committee on Admissions and all requirements met by the cut-off date.

Summer Quarter, 1969.....	Friday, May 30, 1969
Fall Quarter, 1969.....	Friday, February 28, 1969
Winter Quarter, 1969-70.....	Friday, October 31, 1969
Spring Quarter, 1970.....	Monday, February 16, 1970

The University may announce changes in deadline dates for admission or readmission at any quarter when applications exceed the normal number of students that can be cared for by the University.

REGISTRATION

Registration Procedures

New Students. Instructions for the registration of new students are given in writing, in conferences, and at meetings during orientation periods.

Students Currently Enrolled. Each student currently enrolled during a quarter should submit a Preferred Course Request for his early registration for

the following quarter. By doing so, the student agrees to complete his registration by advance payment of registration fees. The University assumes no responsibility for accepting an ineligible student's registration. Reservation of a space for any class is subject to the assigned capacity of the class. Scheduling for the reservation of space is planned so that graduate students, seniors, juniors, sophomores, and freshmen have priority in that order. Students who fail to complete the various steps in early registration will forfeit the space in class which has been reserved for them.

All students who have not completed early registration for a given quarter will register on Registration Day as listed in the University calendar and at times announced in advance of each quarter.

Former Students. Students who return to the University after a lapse of one or more quarters receive written instructions for registration after they have applied for readmission.

ACADEMIC ADVISEMENT

New Students

Each new student is assigned to an advisor who assists him in the preparation of his academic program. During the orientation or registration days the advisor and the student together plan his program. This plan is subject to modification later upon recommendation of the advisor and approval of the Dean of Student Academic Services.

It is expected that the student will have selected one of the curricula of the University and that the student and his advisor will plan courses that are consistent with the University requirements.

Former Students

After the application for readmission has been approved, the student is assigned to his major department or his former advisor through the Registration and Advisement Office.

Students Changing A Major

Students who wish to change majors should apply in the Registration and Advisement Office after consultation with their advisor. It is important that changes in majors and advisors be made *before preregistration or registration*.

NEW STUDENT ORIENTATION

Prior to registration, activities are scheduled for acquainting new students with the University. Undergraduates enrolling at Eastern Illinois University for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the University in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail. 📧

V. ACADEMIC REGULATIONS AND REQUIREMENTS

CREDIT

CREDIT EARNED AT EASTERN ILLINOIS UNIVERSITY

The unit of measure is the quarter hour which is equivalent to two-thirds of a semester hour.

A regular academic year's work (three quarters) is equivalent to 48-54 quarter hours, with the student carrying four to five courses or 16-18 quarter hours each quarter. Course credits are indicated in the course descriptions.

Generally, students may earn no more than four quarter hours of credit toward graduation in dramatics, chorus, orchestra, or band. However, music majors and minors may receive a maximum of nine quarter hours credit toward graduation for such "ensemble" courses taken. See p. 323. (Students in elementary education may earn four quarter hours in ensemble credit.)

ACCEPTANCE OF CREDIT FOR OTHER WORK

Credit for Courses in Other Colleges. Advanced standing and transfer credit are granted for courses *passed* in accredited colleges and universities and in accredited junior colleges, the total credit being reduced by a number equal to the grade point deficit of courses *passed* if the transcript shows a cumulative grade point average of less than 2.00. The cumulative GPA and the grade point deficit are computed in accordance with the procedures of Eastern Illinois University. Junior college transfers are cautioned that the last 96 quarter hours of credit toward a bachelor's degree must be earned in this institution or in another university or senior college. Courses taken in a junior college may be substituted for required courses of similar content as recommended by appropriate officials of the university. But junior college transfer students must complete at least 64 quarter hours of upper division work at Eastern Illinois University. All transfer students must meet the stipulations listed under "Graduation Requirements."

Credit for Courses Taken in Foreign Universities. Eastern Illinois University recognizes that some students may wish to study at a university in a foreign country. Credits earned in foreign universities in programs sponsored by accredited United States colleges or universities are accepted on the same basis as transfer credits from the United States institutions which sponsor the programs.

Students who successfully complete a junior year abroad program sponsored by an accredited United States college or university are granted exemptions (in addition to the exemptions based on high school records) amounting to 12 quarter hours which may be applied in meeting the general requirements in any bachelor's degree program in the areas of humanities, history, and social science. These exemptions do not reduce the 198 quarter hours of credit required for graduation and they do not reduce the requirements pertaining to majors and minors.

Credit for Military Service. Former members of the armed services who completed at least one calendar year of full time active duty are allowed, upon

application, up to ten quarter hours of credit for Health Education 120 and six one-quarter-hour physical education courses. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in "A Guide to The Evaluation of Educational Experiences in the Armed Forces" by the American Council on Education are used as a basis for such evaluation. Credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the University.

Credit for Correspondence and Extension Courses. Correspondence and extension courses taken from accredited colleges and universities may be submitted for evaluation for advanced standing toward a baccalaureate degree. The total credit accepted toward graduation may not exceed forty-eight quarter hours in correspondence and/or extension courses. Credit toward graduation for such courses, if taken in whole or in part during a period of residence study at Eastern Illinois University is subject to permission granted by the Dean of Student Academic Services in advance of enrollment and to subsequent completion in accordance with the conditions governing the permission. When students are enrolled simultaneously in any combination of residence, extension and correspondence courses, the total credit accepted may not exceed the maximum residence credit for which the student would be eligible during the period in question.

Application for permission must include the proposed starting date of the course, the proposed completion date, and the proposed periods of work. If the course is not completed in accordance with this schedule, an extension of time granted by the Dean of Student Academic Services is required in order for the course to be considered subsequently for credit toward a degree. Documentary verification of compliance with the regulations may be required by the Dean of Student Academic Services.

Credit for Advanced Placement Tests. Students who submit scores for Advanced Placement Tests administered by the College Entrance Examination Board will have their records evaluated by the Dean of Student Academic Services, in accordance with standards established by the appropriate departments, to determine proper placement and proper credit. College credit granted will be treated as transfer credit without a grade; such credit will count toward graduation and may be used in fulfilling specific curriculum requirements. Credit may be allowed as indicated above only if the student was not obliged to use the credit earned in the advanced placement course to meet minimum high school graduation requirements.

Credit for College Level Examination Program (CLEP) Tests. Eastern Illinois University recognizes undergraduate achievement in the five basic liberal arts areas as measured by the general examinations of the College Level Examination Program (CLEP). A student with no college credits who achieves a score at or above the 25th percentile, based on CEEB national norms for students who have completed two years of college work, on one of these tests is granted upon admission to Eastern Illinois University eight quarter hours of credit that counts toward the 198 quarter hours required for a bachelor's degree. Maximum total hours for the battery of five tests is 40 quarter hours. Students who enroll at Eastern Illinois University with transfer credits and

CLEP scores on general examinations may be given CLEP credit only in those areas not duplicating transfer credit.

Credit for College-Level General Educational Development Tests. No credit toward graduation is allowed for college-level General Educational Development tests.

CREDIT BY PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the University in accordance with the following regulations:

1. The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within sixteen quarter hours of graduation.
 - c. Be a teacher who has been working regularly toward the degree Bachelor of Science in Education.
 - d. Be in full-time residence in the summer immediately preceding the year in which application is made.
2. The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
3. The applicant must obtain a recommendation in writing from the department head and approval from the Vice President for Instruction before the examination may be taken. The applicant should present evidence of independent study, of experience, or of equivalent work taken in non-accredited schools.
4. An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for more than one quarter of work in advance of the course in which the examination is requested.
5. Proficiency examinations may not be used to remove grades of F or to raise grades.
6. In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol Cr is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
7. Credit earned by proficiency examinations may be counted toward a bachelor's degree subject to all of the rules that would apply if the same course had been taken in regular class attendance.
8. Proficiency examinations may not be given for credit in required physical education.
9. When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the head of the department.

CLASSIFICATION OF STUDENTS

Undergraduate students are classified as follows:

Freshmen	0 through 42 quarter hours
Sophomores	43 through 89 quarter hours
Juniors	90 through 141 quarter hours
Seniors	142 quarter hours and over

Graduate students are defined as students who have completed all requirements for a bachelor's degree and have applied for and been admitted to take graduate courses.

HONORS PROGRAM

Selected students who volunteer may enroll in the Honors Program which has the following objectives:

- to give outstanding students opportunity to explore various fields of study more widely and in greater depth, in a manner suitable and challenging to their talents;
- to encourage intellectually gifted students to enroll at Eastern Illinois University; and
- to create for outstanding students an environment highly conducive to scholarly pursuit.

The program consists of special honors sections of courses, special courses for honors students, and, at the advanced level, independent study and honor seminars. Students participating in the program are designated Hobart F. Heller Scholars.

ACADEMIC STANDING

GRADES

The grades given in courses are as follows:

Grade	Description	Grade Point Value
A	Excellent	4
B	Good	3
C	Fair	2
D	Poor but passing	1
F	Failure	0
P	Pass	—
E	Incomplete	—
WP	Withdrew—passing	—
WF	Withdrew—failing	0
AU	Audit	—
Cr	Proficiency Credit	—

The grade of E may be given when because of illness or some other important reason the student's normal progress in a course has been delayed. The student shall have an instructor-approved plan for completion of work no later than the end of the next quarter the course is offered and in which he is

in residence. If the plan is carried out, the grade earned by the student replaces the grade of E; otherwise the grade of E remains on the student's record. The time restriction does not apply to the formal graduate paper required for the master's degree.

GRADE-POINT AVERAGE*

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of quarter hours which may be earned in the course. The grade point average is computed by dividing the total number of grade points which a student has earned in all courses taken at Eastern Illinois University by the total number of quarter hours represented by those courses (excluding courses in which a student has grades of E, P, WP, AU, or Cr).

GRADE-POINT DEFICIT**

If the grade-point average is less than 2.00, a grade-point deficit exists. This is computed by subtracting the grade-point total from twice the total number of quarter hours. (This is equivalent to defining the grade-point deficit as the number by which the grade-point total would have to be increased in order to have a grade-point average of 2.00.)

GOOD STANDING

A student who has completed at least one quarter at Eastern Illinois University and who has attended college as a full time or part time student less than four quarters is considered in good standing unless he has a deficit greater than four points in courses taken at Eastern Illinois University. If he has attended four or more quarters, he is considered in good standing if his grade point average in courses taken at Eastern Illinois University is 2.00 or higher.

For the purposes of this section, three terms at this university, either summer terms or quarters, shall be interpreted as one year; one semester, summer term, or quarter in another college shall be interpreted as one quarter; two semesters in another college shall be interpreted as one year.

Any quarter in which a student registers in the University will be considered as a quarter attended. In case a student withdraws during a quarter for reasons beyond his control, the Committee on Admissions may, upon petition of the student at the time of withdrawal, authorize that the quarter not be counted as a quarter attended.

PROBATION

A student whose record falls below that required for good standing, but not so low as to be subject to exclusion, is placed on probation.

FINAL PROBATION

A student who has attended for one quarter on probation and whose

* An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 4, 4, 1, and 4 quarter hours respectively, the grade-point average and grade-point deficit are computed as follows:

Grades	Quarter Hours	Grade Points	Computation
A	2	8	G.P.A. = 29 divided by
B	4	12	15 = 1.93
C	4	8	**G.P.D. = 2 x 15 minus 29
D	1	1	= 1.
F	4	0	
	15	29	

record at the close of that quarter or at any subsequent time falls below that required for good standing, but not so low as to be subject to exclusion, is placed on final probation. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

EXTENDED FINAL PROBATION

A student who during a quarter of final probation reduces his grade point deficit by at least four points will be classified as on extended final probation, and be subject to all the rules which govern final probation.

EXCLUSION (DROPPED)

A student is dropped for low scholarship (1) if at the end of a quarter on Final Probation he has neither attained good standing nor qualified for "Extended Final Probation" (2) if after reattaining good standing, he fails at any time to maintain good standing, or (3) if at any time his record shows a cumulative grade point deficit greater than twelve. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing."

REINSTATEMENT

A student dropped for low scholarship may petition for reinstatement at any time; however, a period of one quarter must elapse before a student may be readmitted, unless the student has fewer than five deficit points and has not been dropped previously, or has a written recommendation from the Dean of Men, Dean of Women, or University Physician stating that extenuating circumstances would make immediate consideration desirable.

If a student who has been dropped with a deficit *greater than twelve* is readmitted by the Committee on Admissions *after at least one calendar year has elapsed*, his previous record is evaluated as follows: the amount of credit toward graduation is limited to the total represented by the courses previously passed with grade of C or higher; subsequent computations of grade-point averages are based on work done after readmission. Such a student may be readmitted only on final probation. A given individual may have no more than one opportunity for readmission on these terms.

If a student who has been dropped with a deficit not greater than twelve is readmitted by the Committee on Admissions, or if a student with a deficit greater than twelve is readmitted before at least one year has elapsed, he may be given by the committee up to three quarters to attain good standing. His privilege of attending is cancelled, however, if at the end of any of the quarters so specified he has not either attained good standing or made an average gain of four grade points per quarter.

ACADEMIC LOAD

UNDERGRADUATE STUDENT

Normal Load—Academic School Year. A normal load for an undergraduate student in any of the three quarters of the school year is sixteen to eighteen quarter hours.

Normal Load—Summer Quarter. A normal load for an undergraduate student in the undergraduate summer quarter is sixteen to eighteen quarter hours.

A junior or senior whose cumulative grade point average is 2.25 or higher may combine three courses in the undergraduate quarter with one course numbered 450 to 499 in the graduate term.

A junior or senior whose cumulative grade point average is 2.75 or higher may combine two courses in the undergraduate quarter with two courses numbered 450 to 499 in the graduate term.

A junior or senior who takes no more than 12 quarter hours in total may take these in any combination undergraduate courses and courses numbered 450 to 499 offered in the graduate term.

A senior who is otherwise eligible for a course numbered 500 to 549 may take it instead of a course numbered 450 to 499 in accordance with the above rules.

No student, except certain qualified seniors, may register for more than the full load as defined above during the summer quarter.

Overload. Subject to exceptions set forth below, an undergraduate student may register for as many as twenty-one quarter hours if his cumulative grade point average or his grade point average for the last three quarters is at least 3.00. An undergraduate student may register for more than twenty-one quarter hours if his cumulative grade point average is at least 3.50 and he has permission from the dean or director of the college or school administering his major.

No student may register for additional work during (1) his first quarter of residence in the University, (2) a quarter in which he is taking student teaching, (3) a ten-week summer quarter, except certain qualified seniors as explained below.

Final Quarter Seniors. Final quarter seniors, not taking student teaching in that quarter, may register for up to and including twenty quarter hours providing:

- a. the student is in good standing;
- b. the appropriate dean or director notifies the Dean of Student Academic Services in writing that such an academic load, if successfully completed, will insure graduation in that quarter. The student is responsible for obtaining such a statement from his appropriate dean or director and taking it to the Dean of Student Academic Services who, thereupon, authorizes the overload.

If the student is scheduled for student teaching in his last quarter, he may use the above option in the preceding quarter.

GRADUATE STUDENT

A graduate student is restricted to sixteen quarter hours during a fall, winter or spring quarter and twelve quarter hours during the summer term.

COURSE ENROLLMENT

A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

REPEATING COURSES

A student who receives an A, B, or C grade in a course may not repeat

the course. A student who receives a D in a course may repeat the course only once.

AUDITING OF COURSES

Provisions for auditing courses may be made under certain circumstances.

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of registration from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

ATTENDANCE AT CLASS

Students are expected to attend all classes for which they are registered unless prevented by illness or some other urgent reason.

A student who is absent for serious illness or because of death or illness in the immediate family is expected to notify the Dean of Men or Dean of Women the first day of his absence, if possible, so that his instructors may be notified.

When a student knows in advance that he will be absent, it is his duty to notify his instructor. When he does not know of it in advance, he has the obligation to explain his absence on returning.

A student who is absent immediately before or immediately after a vacation period is not accorded the privilege of making up work missed unless it is definitely established through the University Health Service and the Dean of Men or Dean of Women that the student has been too ill to attend or that there has been a death or serious illness in the immediate family.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Vice President for Instruction, Dean of Men, Dean of Women, or the Dean of Student Academic Services upon request.

Instructors are expected to report to the Dean of Men or Dean of Women the name and attendance record of any student whose absences have become a matter of concern. A student whose record has been so reported may be denied permission by an instructor to re-enter class until he presents a statement from the Dean of Men or Dean of Women. In the event that the student has missed classes for reasons acceptable to the Dean of Men or Dean of Women, he is entitled to a reasonable amount of help from the instructor in making up work missed. In the event that the reason for excessive absence is not acceptable to the Dean of Men or Dean of Women, the student may be required to withdraw from the course. In aggravated cases of failure to attend classes he may be dropped from the University by action of the Council of Administrative Officers on recommendation of the Dean of Student Personnel Services.

PASS-FAIL OPTION

To encourage students to participate in areas of learning outside their major academic interests and to stimulate intellectual curiosity, the University

inaugurated a two-year experimental pass-fail system beginning spring 1968. The following rules apply:

Eligibility. Juniors and seniors in good standing.

Courses Included. Four-quarter-hour courses not used to satisfy a student's major requirements, concentration requirements, or professional education requirements. Further, 100 level courses taken pass-fail cannot be used to satisfy general requirements.

Limit of Courses. Maximum of six total courses, with only one option course in any single quarter.

Procedures. At registration the student will indicate the course he has opted for a pass-fail grade. No change of grade basis will be made.

Grades. Instructors will award the usual letter grades, but for students who select a pass-fail option, the permanent record card will show, for the opted course, either P or F. In the unusual case when a junior or senior changes his major which may then include as a requirement a course he has previously opted for pass-fail, the letter grade originally awarded will be entered on the permanent record card and appropriate recomputation of GPA will be made.

GPA. A grade of P and credit hours for the P will not be included in GPA computation. However, an F grade and its hours will count in the GPA computation.

WITHDRAWAL FROM A COURSE

A student may drop a course within the first forty-seven calendar days following the first day of classes (excluding the Christmas break) upon the recommendation of his advisor and the approval of the Dean of Student Academic Services. Drop slips may be obtained from the Registration Office.

No student may drop a course after this period unless illness, certified by the University Physician, or extended absence from the campus, certified by the Dean of Men or Dean of Women, has caused the student to drop behind to the point where his load must be lightened.

For grades upon withdrawal, consult "Recording of Grades Upon Withdrawal."

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a quarter or summer term must obtain a withdrawal form from the Dean of Men or Dean of Women. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be turned in to the Registration Office. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

If a student withdraws from the University and his initial notice of intention to withdraw is made to the Dean of Men or Dean of Women during

the first ten calendar days following the first day of classes for the quarter, the registration fee will be refunded. The notice of intention to withdraw should be made in person although a letter addressed to the Dean of Men or Dean of Women declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice.

No student may initiate or consummate withdrawal from the University within the last three school days prior to the date of the first regularly scheduled final quarterly examination.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean of Student Academic Services.

DETERMINING THE "DAY OF THE QUARTER"

If the specified day of the quarter falls on a Saturday, Sunday, or within a stated vacation period (except the Christmas break), the next school day is used in determining the date.

RECORDING OF GRADES UPON WITHDRAWAL

If a student drops a course or leaves the University after the twelfth calendar day following the first day of classes, he will be given WP in any course in which he is doing passing work; he will be given WF if he is doing failing work. The grade of WF must be recorded if prior to the date that the withdrawal was formally initiated by the student, the number of "unjustified" absences has been great enough so that the student cannot be considered as having done the work of the course to date.

When illness or other medical reasons, certified by the University Physician, require a student to withdraw from a course or from the University, the grade will be WP or WF depending on whether the student was passing or failing at the time of the onset of the illness.

When a first-quarter freshman leaves school within the first thirty-four calendar days following the first day of classes (excluding the Christmas break), grades of WP will be recorded in all courses.

A student who is carrying an overload may reduce his schedule to a normal load at any time during the first thirty-four calendar days following the first day of classes (excluding Christmas break) and receive the grade of WP in the course dropped.

If a student discontinues attendance in all classes without withdrawing officially, grades of F are recorded in all courses.

The grade of WF carries the same grade-point implications as the grade of F.

GRADUATION REQUIREMENTS

RESPONSIBILITY OF STUDENTS

It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the advisor will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

CHOOSING A MAJOR

Each graduate must complete a major in an academic discipline, and for some programs, must also complete a minor. Students may choose a major at

any registration for their first four quarters and must choose a major by registration for their fifth quarter or by the time they have earned 68 quarter hours, whichever is earlier. In certain areas, such as elementary education, music, physical education for women, and speech correction, the decision should be made upon entering the University.

At the time of entering the University, some freshmen students will have already made a definite, considered decision concerning the discipline in which they wish to major. These students should indicate this decision on the proper forms and to their advisors. Many other freshmen, however, are not yet ready to make a firm choice of their major field of study and wish to delay this decision until they have explored several general areas of learning. Such delay is made possible by choosing, during the first three or four quarters in the University, a general program of courses, all of which are required for graduation but which do not commit the student to a definite major. Typical examples of such programs for the freshman year are:

A. *B.A. Candidates.*

English 120, English 130, Speech 131.....	12	qtr. hrs.
Natural or Physical Science	12	qtr. hrs.
Foreign Language	12	qtr. hrs.
History or Social Studies, Health Ed. 120.....	12	qtr. hrs.
Physical Education	3	qtr. hrs.

B. *B.S. Candidates.*

Speech 131, English 120, English 130.....	12	qtr. hrs.
Natural or Physical Science.....	12	qtr. hrs.
Mathematics, Health Education 120.....	12	qtr. hrs.
Foreign Language	12	qtr. hrs.
Physical Education	3	qtr. hrs.

C. *Professional Degree Candidates.*

English 120, Speech 131, English 130.....	12	qtr. hrs.
Natural or Physical Science.....	12	qtr. hrs.
Health Ed. 120, Mathematics, Humanities Subject.....	12	qtr. hrs.
History or Social Studies.....	12	qtr. hrs.
Physical Education	3	qtr. hrs.

COURSE REQUIREMENTS FOR THE BACCALAUREATE DEGREES

The official course requirements for the baccalaureate degrees are given in Section VII.

TOTAL CREDITS REQUIRED

The minimum credit for a baccalaureate degree is 198 quarter hours including at least 6 quarter hours but not more than 9 quarter hours of physical education service courses. For disabled persons, military veterans and students who are over 38 years of age at the time of admission to the University, a waiver of up to 6 quarter hours will be granted for physical education service courses and the graduation requirement will be reduced by a corresponding number of hours, but by no more than 6 hours.

RESIDENCE

At least 48 quarter hours must be earned in residence during the junior and senior years. A minimum of 64 quarter hours must be completed in residence at this institution.

SPECIAL EXAMINATIONS

An examination on the Declaration of Independence, the proper use and display of the flag and the constitutions of the United States and of Illinois must have been passed before the baccalaureate degree is awarded. An exemption from this requirement may be obtained by students who receive a grade of C or better in each of Political Science 110, 111, 112 and who apply to the Records Office.

ADVANCED COURSES

Sixty-four quarter hours of credit in courses numbered 300-549 must be earned in the baccalaureate degree programs. In the case of students who enter with advanced standing, courses not open to freshmen and sophomores in schools previously attended may be included in this total.

GRADE-POINT AVERAGE

Grade point averages required for graduation are: a cumulative overall GPA of at least 2.00; and a cumulative GPA of at least 2.00 in the major.

CREDIT FOR COURSES IN EDUCATION

Courses in education and methods of teaching are accepted only toward the degree Bachelor of Science in Education. Enrollment in these courses (with the exception of Education 120, 121, and 232) is restricted to students at the junior level, or higher, who have been accepted as teacher education candidates.

APPLICATION FOR GRADUATION

Degrees are conferred at the close of the fall, winter, spring, and summer quarters. Students entitled to participate in commencement exercises are those whose current enrollment in correspondence, extension, and residence at this university or elsewhere makes possible the completion of all graduation requirements by the close of the quarter in which commencement is held. Students may be excused from the commencement exercises by the Vice President for Instruction.

Students apply for graduation upon completion of 128 quarter hours of course work. All requirements for degrees must have been completed by the close of the quarter in which graduation is sought. It is the student's responsibility to notify the Records Office of any non-campus courses being taken which will complete the requirements for graduation. Documentary evidence that all degree requirements have been completed must be in the Records Office by the official closing date of the quarter of graduation, or within a thirty-day grace period following that date. The degree diploma will not be given to the student and the conferral of the degree will not be recorded on the student's permanent record until all such documents have been received. Applications for graduation may be obtained at the Records Office. The application is completed by the student and validated by the Cashier when the graduation fee is paid.

If the student does not complete graduation requirements at the end of the quarter expected, he must make re-application for graduation. No additional fees will be charged.

Deadline dates for application for graduation:

Summer Quarter.....	July 1, 1969
Fall Quarter.....	September 9, 1969
Winter Quarter.....	December 3, 1969

Spring Quarter.....March 11, 1970

Summer Quarter.....July 1, 1970

The graduation fees are as follows: bachelor's degree, \$10.00; master's degree, \$15.00.

HONORS

Graduation honors for baccalaureate degrees are computed on the basis of the scholarship record at the end of the quarter preceding the quarter of graduation. To be eligible for graduation honors a student must have been in full time residence for at least six quarters.

A student whose grade-point average is at least 3.40 but less than 3.75 is graduated with honors; one whose grade-point average is 3.75 or higher is graduated with high honors.

Graduation honors are noted on the diploma and announced at commencement.

Quarter honors are recommended on the same basis as graduation honors. To be eligible for honors in any quarter, the student must have carried at least fourteen quarter hours of courses.

CERTIFICATION

B.S. in Ed. Degree. Candidates for the degree B.S. in Ed. are responsible for fulfilling any special certification or accreditation requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates or transcripts indicating that the student has completed his degree cannot be issued until the student meets all requirements of the section on Graduation Requirements.

Administrative Certification. Graduates of an approved program in administration should make application for cards of entitlement through the Department of Supervision and Administration, Faculty for Professional Education.

PLACEMENT OFFICE

Registration with the Placement Office is prerequisite to graduation with any degree.

TRANSCRIPTS

The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certifying agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request forms supplied by the Records Office.

The time required for preparation and mailing of transcripts varies; during registration and quarter end there may be a delay of several days.

A fee of one dollar is charged for each transcript issued after the first one. Fifty cents is charged for each extra copy of the transcript when more than one is made at one time.

VI. EXTENSION SERVICES

ESTABLISHING CENTERS

Extension courses are assigned to centers where it is likely that needs and enrollment will justify the service. Requests from county superintendents, unit administrators, groups of teachers, and other agencies are considered in planning the extension offerings.

Requests for courses should be filed well in advance of the time the course may be desired. The University reserves the right to cancel scheduled classes where there is evidence that the enrollment will be inadequate.

ENTRANCE REQUIREMENTS

Undergraduate extension courses are open to high school graduates subject to specific course prerequisites. However, admission to undergraduate extension courses does not constitute admission to the University. An application for admission must be filed at the time of registration the first time a student registers for an on campus undergraduate course.

A student enrolling in graduate courses is subject to the same entrance requirements as one enrolling in comparable courses taught in residence. He must file an application for admission to graduate study at the time of registration the first time he registers for a graduate course.

REGISTRATION PROCEDURES

Students will register and pay fees by mail. The instructor will furnish students with registration material at the first and second class sessions. Enrollment procedures will be explained by the instructor at that time. The completed forms and fees are mailed to the Business Office.

FEES

COURSE FEES

The fees are \$9.00 per quarter hour of credit. In addition, a \$3.00 book rental is charged each student.

Regular fees are required of students auditing a course.

CREDIT FOR EXTENSION COURSES

Students not interested in receiving credit may audit courses by paying appropriate fees and receiving permission from the instructor.

SCHOLARSHIPS

Teacher Education Scholarships may not be used on extension. Military Scholarships may be used on extension.

SCHEDULE OF CLASSES

The schedule for extension classes is published annually in the Extension Bulletin. Classes meet in weekly periods of one hundred fifty minutes for sixteen weeks, i.e., from 7 p.m. to 9:30 p.m., once per week. Address all requests for bulletins and other inquiries to the Director of Extension.

VII. UNDERGRADUATE DEGREES

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student, not the advisor, has the ultimate responsibility to fulfill the requirements for the degree, to check his own eligibility to take courses, and to observe the academic rules governing his program. The advisor's role is to assist him in making important decisions.

The University awards the following undergraduate degrees:

General:	Bachelor of Arts
	Bachelor of Science
Professional:	Bachelor of Music
	Bachelor of Science in Business
	Bachelor of Science in Education
	Bachelor of Science in Home Economics
	Bachelor of Science in Industrial Technology
	Bachelor of Science in Recreation

While the policy of the University is to allow students considerable latitude in selecting programs and courses for their education, the University will grant degrees only to those students who have completed a broad general education, consisting of both specific University requirements and distribution requirements in certain areas, an academic specialization, and, in the professional degrees, certain professional courses. If courses are listed both in the general education requirements and in the specialization requirements, they may be used to satisfy both requirements. The following section describes the general education program at Eastern Illinois University.

GENERAL EDUCATION REQUIREMENTS

A. *Specific All-University Requirements are:*

	<i>Qtr. Hrs.</i>
English 120, 130, 201	12
Speech 131	4
Health Education 120	4
Physical Education Service Courses	6
	<hr/>
	26

These all-university requirements should be completed within the first six quarters of residence in the University, if possible, and students will not be allowed senior standing before their completion.

B. *Distribution Requirements.* The purpose of the distribution requirements is to give the student a widely-based general education by requiring him to take courses in several broad areas. Depending upon his previous background and achievement, however, the student may be exempt from some of the distribution requirements.

Exemption System. It is the policy of the University to recognize academic achievement in high school by allowing students, if they wish, to take certain exemptions from distribution requirements for acceptable high school units. An acceptable unit consists of two semesters of high school work in the same subject taken five periods each week with at least a B average. Acceptable units do not reduce the total number of hours required for graduation but they may exempt a student from some of the hours in a particular distribution, thus freeing him to take another course or courses of his own choice. Allowable exemptions for all undergraduate degrees are:

Foreign Languages. Two or more acceptable units in a single foreign language exempt the student from 12 hours of the language requirement. A student with less than two acceptable units in a single foreign language will be properly placed and will have completed 12 quarter hours of the requirement when he passes the third quarter course of the first year in a language or any higher numbered course in the language, or when he passes a qualifying examination on the first full year of the language. Regardless of the number of acceptable units, a student will have completed a 24 hour requirement when he has passed the third quarter course of the second year or a higher course or has passed a qualifying examination in the first two full years of the language.

History and Social Studies. One or more acceptable units reduce the requirement by four quarter hours for each acceptable unit up to a maximum reduction of eight quarter hours.

Humanities. One or more acceptable units reduce the requirement by four quarter hours. B.S.Ed. candidates may use a foreign language to satisfy no more than and no less than 12 quarter hours of this requirement; see foreign language exemptions above.

Natural Sciences. Two acceptable units in a single natural science field, biological science or physical science, reduce the requirement in that field by 12 quarter hours. One acceptable unit in one field or an acceptable unit in each of the two fields reduces the requirement in the appropriate or chosen field by four quarter hours, and the requirement may be filled by at least 12 hours in the field in which the exemption is not taken plus the hours remaining to satisfy the field in which the exemption is taken. Regardless of exemptions, all students must take at least 12 hours in a single natural science field except that students in the School of Elementary and Junior High School Teaching must take eight hours in each field.

Mathematics. One or more acceptable units in mathematics beyond the first two years of college preparatory mathematics reduce the requirement by four quarter hours for each acceptable unit. Algebra, plane geometry, solid geometry, trigonometry, and certain courses determined by the Department of Mathematics are college preparatory courses.

Distribution Requirements

(Note that this table is

	BACHELOR OF ARTS
	<i>* 24 quarter hours</i>
Foreign Languages	24 hours in a single language or completion of the third quarter course of the second year or higher course. See Humanities below.
	<i>24 quarter hours</i>
History and Social Studies	12 quarter hours in history and 12 quarter hours in one or more of the social studies: economics, geography, anthropology, sociology, political science, psychology.
	<i>16 quarter hours</i>
Humanities	Total hours must be met from more than one of these subjects: art, music, literature, philosophy, speech, th. arts. Approved foreign language literature courses may not count both as literature and foreign language.
	<i>4 quarter hours</i>
Mathematics	Any mathematics course except teaching methods.
	<i>12 quarter hours</i>
Natural Sciences	12 hours in biological sciences—life sciences, botany, zoology—or 12 hours in physical sciences—chemistry, geology, physical science, physics.

APPROVED COURSES FOR DISTRIBUTION REQUIREMENTS

* The foreign language requirement may be met through presentation to the Dean of Student Academic Services satisfactory documentary evidence substantiating achievement at the two year college level in the Bachelor of Arts degree and at the first year college level in the Bachelor of Science degree in a tongue *other than the student's mother tongue*.

for Undergraduate Degrees
based on no exemptions)

BACHELOR OF SCIENCE	PROFESSIONAL DEGREES
<i>* 12 quarter hours</i> 12 hours in a single foreign language or completion of the third quarter or higher course.	No requirement but foreign language may be used to satisfy 12 hours of humanities requirement upon completion of the third quarter or higher course.
<i>24 quarter hours</i> Same as B.A. requirement.	<i>20 quarter hours</i> At least 12 hrs. in one of the following: history, economics, geography, anthropology, sociology, political science, psychology. Regardless of exemptions, BSEd candidates must take 4 q. hrs. in U.S. history or U.S. government. <i>Note:</i> BSEd candidates may not count the professional requirement, Psych. 231, toward fulfilling this requirement.
<i>12 quarter hours</i> Same as B.A. requirement.	<i>20 quarter hours</i> Option I: 12 hours in a foreign language plus 8 hours in philosophy, literature, and speech courses or 8 hours in art, music, and th. arts courses. Approved for. lang. literature courses may not satisfy both for. lang. & humanities requirement. Option II: 12-8 hours in philosophy, literature, & speech courses plus 8-12 hrs. in art, music & th. arts courses.
<i>8 quarter hours</i> Any mathematics course except teaching methods.	<i>4 quarter hours</i> Same as B.A. requirement.
<i>24 quarter hours</i> 12 hours in biological sciences and 12 hours in physical sciences.	<i>16 quarter hours</i> At least 12 hours must be in biological sciences or in physical sciences. Students in elementary and junior high sch. program must have 8 hrs. in biol. sciences and 8 hrs. in physical sciences.

ARE LISTED ON THE FOLLOWING PAGE

COURSES WHICH SATISFY DISTRIBUTION REQUIREMENTS

The following list comprises the specific courses which count toward filling the general education distribution requirements. While any individual course on the list may apply to a distribution requirement, it is highly recommended that courses be taken in the sequences shown below.

BIOLOGICAL SCIENCES:

Life Sci. 100, Bot. 101, Zoo. 101
 Life Sci. 100, Zoo. 101, Bot. 101
 Life Sci. 100, Bot. 101, Bot. 222
 Life Sci. 100, Zoo. 101, Zoo. 212
 Life Sci. 100, Zoo. 101, Zoo. 225

HISTORY AND SOCIAL STUDIES:

Hist. 233, 234, 235, 380
 Hist. 244, 245, 246
 Hist. 246, 247, 248
 Hist. 343, 344, 345
 Econ. 254, 255, 256
 Econ. 254, 255, 356
 Geog. 150, 151 or 302, 360
 Geog. 150, 360, 361 or 362
 Geog. 150, 300, 301
 Pol. Sci. 100, 110, 111
 Pol. Sci. 110, 111, 112
 Pol. Sci. 220, 221, 222
 Psych. 231, 281, 282
 Psych. 231, 281, 361
 Psych. 231, 350, 352
 Psych. 231, 234, 261
 Psych. 231, 351, 353
 Soc. 271, 272, Anthro. 273
 Soc. Sci. 440, 441

HUMANITIES:

Art 100, 110, 111 (for Art majors and minors, Ind. Arts, and Industrial Tech. students only)
 Art 140 (for Elem. & JHS students only)
 Art 165, 265, 266
 Art 360, 361, 362
 Engl. 245, 246, 247
 Engl. 250, 251, 252
 Engl. 260, 261, 262, 263
 Engl. 310, 333, 360, 379
 Engl. 336, 337, 338
 Engl. 361, 362, 363

HUMANITIES—(CONTINUED)

Engl. 380, 381, 382
 Engl. 470, 471, 472, 480
 Music 120 (for Elem. & JHS students only)
 Music 130, 131, 132 (for music majors and minors only)
 Music 221, 222, 225 (for Elem. students only)
 Music 229
 Music 320, 321, 322
 Phil. 250, 301, 402, or 404
 Phil. 301, 305, 306
 Phil. 250, 270, 330 or 410
 Speech 230, 232, 453
 Th. Arts 133, 240, 333 or 473
 Approved For. Lang. literature courses
 Sequences of three one-quarter hour courses in applied music, band, orchestra, or chorus may be used to satisfy not more than 12 hours of humanities in any degree.

PHYSICAL SCIENCES:

Chem. 120, 121, 122
 Chem. 150, 151, 152
 Chem. 153, 154, 155 (for Home Ec. majors only)
 Geol. 140, 243, 245 or 244
 Physics 110, 111, 112
 Physics 120, 121, 122 (for music and speech majors and minors only)
 Physics 110, Chem. 120, Geol. 140
 Physics 130, 131, 132
 Phys. Sci. 100, 101 (for Elem. & JHS majors only)

MATHEMATICS:

Any courses except teaching methods
 Math. 122, 123 (for Elem. & JHS majors only)

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

These degrees are conferred upon completion of 198 quarter hours, including general education requirements and one of the majors outlined below. Courses in professional education are not accepted for credit toward these degrees.

General Education Requirements (see page 80).

SPECIALIZATION

The specialization for the degrees, Bachelor of Arts and Bachelor of Science, may consist of a departmental major, an interdisciplinary major of prescribed courses in related disciplines, or certain cooperative programs. Suitable courses in the specialization may also be used in partial fulfillment of the general education requirements.

Art

Major—Art Studio:

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, and 310	48	qtr. hrs.
Sixteen quarter hours in advanced courses selected from one of the following areas: (1) art history; (2) painting, drawing, and printmaking; (3) sculpture and ceramics; (4) crafts—weaving, ceramics, jewelry; (5) commercial art and lettering	16	—
Total	64	qtr. hrs.

Major—Art History (B.A. degree only):

Art 160, 260, 261, 262, 363, 364, 365, and 475	32	qtr. hrs.
Art 165, 265, and 266; or any three studio courses	12	
Electives chosen from: Art 366, 367, 368, 369, 462, 469, 476, or 477	20	—
Total	64	qtr. hrs.

Botany

Major:

Life Science 100; Botany 101, 222, 229, 230	20	qtr. hrs.
Electives in botany	28	—
Total	48	qtr. hrs.
Correlative courses: twelve quarter hours in chem- istry (Major GPA based on Life Science 100 and botany courses only.)		

Chemistry

Major:

Chemistry 150 (or 120 and 121), 151, 152	12	qtr. hrs.
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Chemistry 283, 284, 285, 330, 400, 401, 461, 470, 491, 492, 493	42
Electives chosen from Chemistry 346, 420, 421, 481, 485, 494	12
	<hr/>
Total	66 qtr. hrs.
Correlative courses:	
Mathematics 134, 135, 235, 236	16 qtr. hrs.
Physics 130, 131, 132	12
	<hr/>
	28 qtr. hrs.

(Major GPA based on chemistry courses only.)

Economics

Major:

Economics courses including 460, 461, 462	48 qtr. hrs.
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English

Major:

English 245, 246, 247; 336 or 337 or 338	16 qtr. hrs.
Electives in English numbered above 201, not to include English 322, 340, 459	32
	<hr/>
Total	48 qtr. hrs.

Foreign Language

Major (French, German, Latin, Spanish):

Courses in one language more advanced than the first twenty quarter hours of college work in that lan- guage	48 qtr. hrs.
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Geography

Major:

From Geology 140, Geography 141, 142	4 or 8 qtr. hrs.
Geography 150	4
Geography 151 or 302; one additional course in regional geography	8
Geography 360 or 361 or 362	4
Geography 380, 490	8
Electives in geography approved by the head of the department, to include at least 8 hours in courses numbered 300 or above.....	20 or 16
	<hr/>
Total	48 qtr. hrs.

(Major GPA based on geography and geology courses only.)

Geology

Major:

Geology 140, 243, 244, 245, 343, 345, 449 and Geography 381	32	qtr. hrs.
Electives chosen from Geology 346, 445, 447, Geography 242, 380, 480, 490	16	
	—	
Total	48	qtr. hrs.

Correlative courses:

Chemistry 120, 121, 122; or 150, 151, 152 ..	12	qtr. hrs.
Life Science 100, Botany 101, Zoology 101 ..	12	
Physics 130, and 131 or 132	8	
Mathematics 130, 131, 134	12	
	—	
	44	qtr. hrs.

(Major GPA based on geography and geology courses only.)

History

Major:

History 233, 234, 235, 244, 245, 246, 247, 248	32	qtr. hrs.
Electives in history numbered above 300	16	qtr. hrs.
	—	
Total	48	qtr. hrs.

Latin American Studies

Major: (Interdepartmental major; no minor required)

History 281, 282, 464, 465	16	qtr. hrs.
Courses chosen from: Anthropology 360; Economics 490; Geography 351, 451; Political Science 481, 493; a sociology course approved by the student's advisor	20	
Option I or Option II	12-24	
	—	
Total	48-60	qtr. hrs.

Option I—One Latin American Language

Spanish (or Portuguese, when offered) at the 300 or higher level	12	qtr. hrs.
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Option II—Two Latin American Languages

Spanish and Portuguese (when offered) twelve quarter hours in each, all at the 200 or higher level	24	qtr. hrs.
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(Major GPA based on specific required courses and all Latin American language courses. The total required hours may exceed the minimum depending upon additional courses taken to meet prerequisites.)

Mathematics

Major:

Mathematics 134, 135, 235, 236, 237, 344, 353, 354; 232 or 231	33 or 36 qtr. hrs.
Electives chosen from Mathematics 327, 350, 351, 357, 449, 455, 458, 460, 461, 470, 471, 491, including at least two of the sequences 350- 351, 460-461, 470-471	24
Total	57 or 60 qtr. hrs.

Music

Major:

Music 130, 131, 132, 230, 231, 232, 347, 351, 352, 353, 447	44 qtr. hrs.
Studies in performance and composition (applied music)	12
Electives in music	4
Minimum ensemble requirement	6
(A maximum of nine quarter hours may be sub- mitted toward graduation.)	
Total	66 qtr. hrs.

Philosophy

Major:

Philosophy 250, 270, 301, 305, 306, and 448	24 qtr. hrs.
Electives in philosophy approved by the department ...	24
Total	48 qtr. hrs.

Physical Education

Major:

Electives chosen from PEM 120, 121, 150, 228, 244, 351, 431, 432, 433, 470, 521, 528, Health Educa- tion 131, PEW 132, 235, 336	48 qtr. hrs.
(Major GPA based on physical education courses only.)	

Physics

Major:

Physics 130, 131, 132	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 466, 467	28
Electives in physics numbered 200 or above	16
Total	56 qtr. hrs.
Mathematics courses including differential equations or advanced calculus are prerequisite to advanced work	

in physics. At least twelve quarter hours in chemistry is desirable.

(Major GPA based on physics courses only.)

Political Science

Major:

Political Science 110, 111; 100 or 112	12	qtr. hrs.
One of Political Science 220, 221, 222, 370, 450	4	
One of Political Science 330, 331, 332, 336, 480, 481 ..	4	
One of Political Science 365, 366, 367, 369	4	
One of Political Science 451, 452	4	
One of Political Science 461, 490, 491, 492, 493	4	
One of Political Science 363, 364, 465	4	
Electives in political science	20	
	<hr/>	
Total	56	qtr. hrs.

Psychology

Major:

Psychology 231, 234, 261, 281	16	qtr. hrs.
Electives in psychology approved by the head of the department	32	
	<hr/>	
Total	48	qtr. hrs.

Sociology

Major:

Sociology 271, 272, 452, 461, 490 or 491; Anthropology 273	24	qtr. hrs.
Electives in sociology approved by the head of the department	24	
	<hr/>	
Total	48	qtr. hrs.

(Major GPA based on Anthropology 273 and sociology courses only.)

Speech

Major:

Theatre Arts 132, 133	8	qtr. hrs.
Electives in speech approved by the head of the department	40	
	<hr/>	
Total	48	qtr. hrs.

(Major GPA based on Theatre Arts 132, 133, and speech courses only.)

Speech Pathology and Audiology

Major:

Speech Pathology and Audiology 254, 255, 260, 262, 263, 362, 402, 403, 405, 406, 408	44	qtr. hrs.
Speech Pathology and Audiology 457	4	
Theatre Arts 132	4	
Total	52	qtr. hrs.

(Major GPA based on Theatre Arts 132 and speech
pathology and audiology courses only.)

Theatre Arts

Major:

Theatre Arts 132, 133	8	qtr. hrs.
Electives in theatre arts approved by the head of the de- partment	40	
Total	48	qtr. hrs.

Zoology

Major:

Life Science 100	4	qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445, 453 ..	36	
Electives in zoology	12	
Total	52	qtr. hrs.

Correlative courses:

Botany 101	4	qtr. hrs.
Chemistry 150, 151, 152 (or 120, 121, 151, 152*), 243	16	

Electives in chemistry, mathematics, or physics
beyond the required sixteen quarter hours
in chemistry and the course or courses in
mathematics used to satisfy the general
education distribution requirements 8

28 qtr. hrs.

(Major GPA based on Life Science 100 and zoology
courses only.)

BACHELOR OF MUSIC

The degree, Bachelor of Music, is conferred upon completion of 198 quarter hours, including courses which satisfy two sets of requirements—general education requirements and specialization.

* If this sequence is chosen, the extra course will count as one of the two electives in physical science or mathematics.

General Education Requirements* (see page 80)74 qtr. hrs.

Specialization

The specialization for the degree, Bachelor of Music, provides for five options: Performance in String or Wind Instrument, Keyboard, Vocal, Music Theory-Composition, and Music History-Literature. The core requirements are:

Music 130, 131, 132	12 qtr. hrs.
Music 230, 231, 232	12
Music 447, 448	6
Music 151, 152	4
Music 351, 352, 353	12
Music 100, 101, or 102; 250, 251, or 252	9 (minimum)
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Total	55 qtr. hrs.

Option I—Performance in String or Wind Instrument

Primary Instrument	48 qtr. hrs.
Music 126, 127, 128	3
Music 347, 348	8
Music 381	4
Electives in Music	6
<hr/>	
Total	69 qtr. hrs.

Option II—Keyboard

(1) Piano Primary—Music 018	48 qtr. hrs.
Music 246, 247, 248	3
Music 362	4
Electives in music	14
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Total	69 qtr. hrs.
(2) Organ Primary—Music 019	48 qtr. hrs.
Music 246, 247, 248	3
Music 461, 462	8
Music 464	4
Electives in music	6
<hr/>	
Total	69 qtr. hrs.

Option III—Vocal

Primary voice—Music 001	48 qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6
Music 243, 244, 245	3
Electives in music	12
<hr/>	
Total	69 qtr. hrs.

* General Requirements86 qtr. hrs.
 Humanities Requirement (satisfied by music)12 qtr. hrs.

Option IV—Music Theory-Composition

Primary Instrument or Voice ¹	24	qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6	
Music 461, 462	8	
Music 347, 348	8	
Music 021 and approved electives in music	20	
Electives in music	3	
	—	
Total	69	qtr. hrs.

Option V—Music History-Literature

Primary Instrument or Voice ²	24	qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6	
Approved electives in music history-literature	20	
Music 347, 348	8	
Music 461, 462	8	
Electives in music	3	
	—	
Total	69	qtr. hrs.

Note: A maximum of nine quarter hours in ensemble credit may be submitted toward graduation requirements. Performance and composition majors are encouraged to participate in at least one ensemble during each quarter of residence.

BACHELOR OF SCIENCE IN BUSINESS

The degree, Bachelor of Science in Business, is conferred upon successful completion of a curriculum consisting of two sets of requirements, general education requirements and specialization, together with elective courses.

General Education Requirements

The general education requirements (and exemptions) are the same as those prescribed for the degree, Bachelor of Science in Education, except that a course in American history or government is not mandatory in fulfilling the history and social studies requirement.

Specialization

Management 141, 142; Marketing 247; Accounting 230, 231, 232; Management 230, 251, 346, 347, 370, 381	48	qtr. hrs.
Courses in the major	24	
	—	
Total	72	qtr. hrs.

Note: Twelve quarter hours of accounting are required of all majors.

Majors:

Accounting: Accounting 354, 355, 356, 360, 461, 464 . .	24	qtr. hrs.
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¹ If piano should be the primary applied, then voice or another instrument may be substituted for the secondary piano requirement (6 qtr. hrs.).
² If piano should be the primary applied, then voice, another instrument, or music electives may be substituted for the secondary piano requirement.

Finance: Accounting 363; Management 371, 372, 420, 484; one of the following: Management 390, 439, 483	24 qtr. hrs.
Management*: Management 383, 436, 345; Accounting 363; Management 434 and 435, or Management 437 and 445	24 qtr. hrs.
Marketing: Marketing 248, 249, 250, 370, 486, 487	24 qtr. hrs.
Secretarial: Business Education 223, 224, 225, 312, 453; Management 383	24 qtr. hrs.

Electives

The general requirements and specialization must be supplemented by elective courses to bring the total to 198 quarter hours. Courses in professional education and methods of teaching are not acceptable as elective courses. The electives must be chosen so that at least 96 quarter hours of the 198 submitted for graduation are in courses outside the School of Business.

[Major GPA based on: (a) all business courses taken and (b) the six courses constituting the specific major.]

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, is conferred upon successful completion of a minimum of 198 quarter hours, including courses which satisfy three sets of requirements—general education requirements, professional education requirements, and specialization requirements. Certain courses may be included in two or more sets of requirements. When this occurs, these courses may do double or triple duty toward meeting the total requirements.

General Education Requirements (see page 80)

Professional Education Requirements

Admission to teacher education is prerequisite to admission to courses in professional education numbered 300 or higher, to departmental methods, and to teaching practicum.

Psychology 231 4 quarter hours

Professional education courses 12 quarter hours

Education 445 is required in all curricula. Education 332 and 333 are prescribed for the curricula for high school and special area teachers with the exception of speech correction teachers who take Education 232 and 324. Professional education courses for elementary and junior high school teachers are included in the curriculum outlines.

Departmental methods courses 0 to 8 quarter hours

See section on majors and minors.

Teaching Practicum (Education 441, 442, 443) 12 quarter hours

* The School of Business and the School of Home Economics cooperate to offer a minor in Institutional Foods Management for business students with major in Management. The Management major who fulfills his science requirement with courses marked (1) below, and who fulfills his free electives with courses marked (2) below, will meet the requirements for a minor in Institutional Foods Management:

(1) Chemistry 153, 154, 155 and Botany 234

(2) Home Economics 210, 211, 233, 303, 360, 411; Management 434 and 490.

Students are urged to add Education 444, making the total 16 quarter hours.
Total28 to 36 quarter hours

Specialization

The specialized curricula for high school teachers, special area teachers, junior high school teachers, and elementary school teachers are described in sections which follow. The curricula for high school teachers lead to the Illinois Standard High School Certificate. The curricula for special area teaching lead to the Standard Special Certificate. The curriculum for junior high school teaching leads to the Standard High School Certificate. The curriculum for elementary school teaching leads to the Standard Elementary Certificate.

The high school curricula require the completion of a departmental major and, in most cases, a minor or an interdisciplinary major. The Special Certificate curricula do not require minors.

Admission to Teacher Education

Admission to the University does not of itself admit a student to teacher education.

Criteria for Admission. Section 21-2 of The School Code of Illinois states in part, "No one shall be certificated to teach or supervise in the public schools of the State of Illinois who is not of good character, good health, a citizen of the United States and at least 19 years of age. . . ." Admission to teacher education is determined by the Council on Teacher Education. In addition to the qualifications outlined by the State Code, the Council also requires for its consideration of each teacher education candidate the following:

1. A formal application from the student (see below).
2. Grades which average 2.10 or higher.
3. Evidence that proficiency in English as a prerequisite to graduation has been met.
 - (a) A student will meet the criterion for English proficiency for admission to teacher education if he has a C average in any combination of three of the following four courses: English 120, 130, 201, Speech 131. (Certification requirements may be met by a score of 400 or higher on the verbal aptitude part of the Graduate Record Examination.)
 - (b) In the case of a student who has repeated one or more of the courses considered in determining English proficiency only the higher grade received in each course is used in computing the grade average. (For other purposes all grades in courses taken at Eastern are included in computing grade averages.)
 - (c) For students who entered Eastern before 1 September 1968 the English proficiency requirement for admission to teacher education is satisfied by a 2.00 or higher average in English 120, 121, and 220, or by a 3.00 or higher average in English 120, 121 (or equivalent courses), or by (a) above.
 - (d) The above requirements for establishing English proficiency as a prerequisite for admission to teacher education apply to all candidates who had not been declared proficient in English prior to December 7, 1967.

4. A recommendation from the student's major department.
5. A recommendation from the University Physician.
6. A recommendation from the Speech and Hearing Clinic.
7. A record of the scores made by the student in entrance tests and subsequent tests administered to students.
8. A statement from the Dean of Student Personnel Services.

Failure of a student to gain admission to teacher education by the close of the quarter in which he will have earned 120 quarter hours, or failure by a transfer student who entered with 84 or more quarter hours in accepted credit to receive approval by the end of his third quarter of residence at Eastern Illinois University, is equivalent to rejection of the application. A student whose application is rejected may not continue his enrollment in a program leading to the degree, Bachelor of Science in Education. Admission to teacher education may be revoked.

Application for Admission. Application blanks for admission to teacher education may be obtained at the Office of the Dean of the Faculty for Professional Education. Policies governing admission to teacher education are as follows:

Curricula for High School and Special Area Teachers.

The student must make application for admission to teacher education no earlier than the quarter in which he will complete 40 quarter hours of credit and no later than the quarter in which he will have completed 100 quarter hours of credit. Enrollment in departmental methods courses or in courses in education is not permitted until after admission to teacher education.

Elementary and Junior High School Education.

Students are considered as tentatively enrolled in the curricula for elementary and junior high school teaching until admitted to teacher education. They will submit applications for admission at the same time as students in the high school curricula. Enrollment in methods courses and education courses, except Education 120, 121, and 232, is deferred until after admission to teacher education.

Transfer and Extension Students.

Transfer students, except elementary and junior high school majors, who enter with freshman or sophomore standing must be admitted to teacher education before they are permitted to earn credit in departmental methods or education courses. Elementary and junior high school majors are allowed to enroll in Education 120, 121, and 232 prior to admission to teacher education. Transfer students with junior or senior standing may carry such courses on a tentative basis while their applications for admission to teacher education are pending.

A person with a baccalaureate degree from a recognized college or university may take departmental methods courses and education courses without formal admission to teacher education but may enroll in teaching practicum only after admission to teacher education.

Teachers in service may take departmental methods courses and

educational courses in extension, or on a part-time basis in residence classes, without admission to teacher education but must apply for admission to teacher education upon re-registering for full-time residence work.

Late Application.

Students who have followed a program which leads to a degree other than Bachelor of Science in Education and who have earned more than 120 quarter hours may make application for admission to teacher education but must make up deficiencies in the curriculum leading to the degree, Bachelor of Science in Education. No privileges will be accorded in the way of acceleration of either the professional or academic requirements of that curriculum or the waiving of course prerequisites.

Teaching Practicum (Education 441, 442, 443, 444)

OBJECTIVE

It is the objective of the teaching practicum to provide a comprehensive experience in harmony with the needs of the student, his ability, interest and initiative, his special talents, and the facilities of the school system and community.

REGULATIONS AND STANDARDS

1. Admission to teacher education is prerequisite to admission to teaching practicum.
2. Students in a high school or special area curriculum, except students in the speech correction curriculum, must have completed Education 332, 333, Psychology 231, and any required departmental methods courses for the subjects to be assigned them.
3. Students in the curriculum for elementary teachers must have completed Education 324 and 328 and, in the case of the kindergarten option, Education 426. Students in the special education curricula must have completed Education 495 and 496. Students in the junior high school curriculum must have completed Education 311, 312, and Education 313 or 314, or equivalent courses approved by the Director of the School of Elementary and Junior High School Teaching.
4. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students in high school and special area curricula must also have an average of 2.10 in their teaching fields at the time of application.
5. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
6. Transfer students must have been in residence at Eastern Illinois University for at least one quarter or one summer term.
7. A physical examination must have been completed in the University Health Service at least one quarter prior to the teaching practicum assignment.
8. Students enrolled in either full-time or part-time off-campus teaching must assume the necessary transportation, room, and board expenses.

9. Students who participate in full-time off-campus teaching should live in the community in which they do their teaching and are expected to observe the local school calendar.
10. Students engaged in the teaching practicum are expected to participate in such activities as guidance programs of the school, audio-visual programs, study hall supervision, preparation of assembly programs, field trips, dramatics, attendance at P.T.A. meetings, faculty meetings, if invited, and participate as faculty members in as many of the activities of the school and community as possible.
11. Attendance is expected at a series of seminar meetings related to the teaching practicum held for prospective high school and special area teachers. Details are distributed through the Office of the Director of Off-Campus Student Teaching.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area, in the public schools of the Chicago area in the case of some students in the elementary and junior high school curriculum, and in the campus laboratory school.

1. A spring quarter meeting is scheduled by the Director of Off-Campus Student Teaching for all secondary and special area students who plan to enroll in teaching practicum during the ensuing school year. Requests for assignment received from students attending this spring meeting have priority. Applications submitted after the spring meeting must be made at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinator and approved by the Director. Students must have clearance with the Director of the School of Elementary and Junior High School Teaching for any assignment in Buzzard Laboratory School.
2. Applications for elementary and junior high school assignments are made to the Director of the School of Elementary and Junior High School Teaching at least one quarter in advance of the quarter in which teaching is desired. Assignments are made through the Director's office.
3. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule.
4. The student's schedule must provide for teaching practicum either all day for one quarter or one-half day for two quarters.
5. A student engaged in teaching practicum is limited to a total load of eighteen quarter hours. The number of hours of outside work permitted is restricted.

CURRICULUM FOR ELEMENTARY TEACHERS

This curriculum requires a choice of one of three options: Early Childhood (kindergarten and grades one, two, and three); Intermediate (grades four, five, and six); and Comprehensive (grades one through eight).

One subject area of 24 quarter hours and another of 12 quarter hours must be selected. Areas of Concentration consist of courses in addition to general education requirements. The following combinations of Areas of Concentration are not permitted: Social Studies and Geography; Social Studies and History. An Area I or Area II must be selected from the following: Biological

Science, English, Geography, History, Mathematics, Physical Science or Social Studies.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and the advisor must cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Life Science 100; Botany 101 or Zoology 101	8
Education 120, 121	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233, 234 or 235	4
History 244, 245, 246, 247 or 248	4
Mathematics (122, ¹ 123, ¹ 322) or (222, ² 322)	8-10
Music 120, 328	8
Womens Physical Education 360	2
Physical Science 100 or Physics 130; Physical Science 101 or Chemistry 120 or Chemistry 150	8
Psychology 231	4
Speech 131	4
Subject Concentration Area I	24
Subject Concentration, Area II	12
Physical Education service courses	6

Courses to complete the general requirements for the degree,
Bachelor of Science in Education, subject to provision for
exemptions; the special requirements for the chosen
option given below; and electives, if necessary, to com-
plete 198 quarter hours.

Students may offer as elective credit 4 quarter hours earned in choral ensemble.

SPECIAL REQUIREMENTS OF OPTIONS

Early Childhood Education

Mathematics 320; Art 244 or Industrial Arts 224; English 322; Edu-
cation 426. (Required only of students who do student teaching in
kindergarten.)

Intermediate

Mathematics 321; Industrial Arts 225 or Art 244.

Comprehensive

Mathematics 320 or 321, or preferably both; Art 244 or Industrial
Arts 224 or 225.

SUBJECT AREAS OF CONCENTRATION

Areas of concentration consist of courses taken in addition to the University General Education Requirements. No deviation from courses indicated here is

¹ Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

² Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

permitted without approval of the Dean of Student Academic Services. General education requirements are hereafter referred to as GER.

Art

- Area I:** Art 244, 309, 319, 465. If Art 244 is taken as a GER select 12 quarter hours from art courses in catalog. If Art 244 is not taken as a GER select 8 quarter hours. Total, 24 quarter hours exclusive of Art 140.
- Area II:** Art 244. If Art 244 is taken as a GER select 12 quarter hours from the following: Art 309, 319, 465. If Art 244 is not taken as a GER select 8 quarter hours from preceding courses. Total, 12 quarter hours exclusive of Art 140.

Art—Industrial Arts

- Area I:** Choose Option A, B, or C

- Option A.** Art 244. If taken as a GER select 12 quarter hours, but if not taken as a GER select 8 quarter hours from Art 309, 319, 465; Industrial Arts 224 or 225. (If either course is taken as a GER the other must be taken as part of the concentration. If neither is taken as a GER both courses must be taken as part of the concentration.) Select 4-8 quarter hours from Industrial Arts 101, 111, 121, 452. Total, 24 quarter hours.
- Option B.** Art 244. If taken as a GER select Art 309, 319, 465 plus four quarter hours art elective. If Art 244 is not taken as a GER select Art 309, 319, 465; Industrial Arts 224 or 225, 452. Total, 24 quarter hours.
- Option C.** Art 244. If taken as a GER select 8 quarter hours from following Art courses but if not taken as a GER select 4 quarter hours, Art 309, 319, 465; Industrial Arts 224 or 225, 452 and select 8 quarter hours from Industrial Arts 101, 111, 121. Total, 24 quarter hours.

Biological Science

- Area I:** Botany 101* or Zoology 101*; Botany 222, 234, 4 quarter hour Botany elective; Zoology 338, 348 or 350. Total, 24 quarter hours.
- Area II:** Botany 101* or Zoology 101*; Botany 222, Zoology 338. Total, 12 quarter hours.
- *Select course not used to satisfy GER.

English

- Area I:** English 126 or 226; 246 or 247; 250 or 251 or 252; twelve quarter hours elective credit in courses in English other than 120, 130, 201. Total, 24 quarter hours.
- Area II:** English 126 or 226; 246 or 247; four quarter hours elective credit in courses in English other than 120, 130, 201. Total, 12 quarter hours.

Foreign Language

- Area I:** 24 quarter hours in a single foreign language.

Area II: 12 quarter hours in a single foreign language.

Note: Placement in a foreign language is described in the foreign language section of the course descriptions, Section X.

Foreign Language Elementary School

Area I and II: Thirty-six quarter hours of college credit in either French or Spanish, including French 340 or Spanish 340 respectively. Total, 36 quarter hours.

Geography

Area I: Geography 151 or 302; 300; 360 or 387; twelve quarter hours elected from 370, 451, 452, 453, 455. Total, 24 quarter hours.

Area II: Geography 151 or 302; 300; 360 or 387. Total, 12 quarter hours.

History

Area I: Eight quarter hours selected from History 233, 234, 235; eight quarter hours from 244, 245, 246, 247, 248; eight quarter hours selected from history courses numbered 300 or above. Total, 24 quarter hours.

Area II: Four quarter hours from History 233, 234, 235; four quarter hours from 244, 245, 246, 247, 248; four quarter hours from history courses numbered 300 or above. Total, 12 quarter hours.

Home Economics—Health Education

Area II: Home Economics 303; Health Education 320; four quarter hours from Home Economics 131, 300, Health Education 330. Total, 12 quarter hours.

Industrial Arts

Area I: Industrial Arts 101, 106, 111, 121; eight quarter hours chosen from 224, 225, 452. Total, 24 quarter hours.

Area II: Four quarter hours selected from Industrial Arts 101, 106, 111, 116, 121; eight quarter hours from 224, 225, 452. Total, 12 quarter hours.

Kindergarten Education

Area II: Education 326, 426; four quarter hours from Art 244, Home Economics 348, Music 126, 127, 128, 226, Physical Education Women 362, or Speech Pathology 460. Total, 12 quarter hours.

Library Science

Area I: Library Science 320, 430, 450, 460, 490; 330 or 332. Total, 24 quarter hours.

Area II: Twelve quarter hours chosen from Library 320, 330, 332, 460.

Mathematics

Area I: Mathematics 130, 131, 134, 327; eight quarter hours from courses in mathematics numbered above 200. Students exempted on basis of proficiency test from Mathematics 131 and/or 130 will substitute

additional courses numbered above 200 to bring the total for Area I to 24 quarter hours.

- Area II: Mathematics 130, 131, 134. Students exempted from Mathematics 131 and/or 130 will substitute courses numbered above 200 to bring the total for Area II to 12 quarter hours.

Mathematics—Science

Students selecting the combined area of Mathematics-Science should substitute Physics 130 for Physical Science 100 to meet GER and Chemistry 120 or 150 for Physical Science 101.

- Area I and II: Eight quarter hours from Mathematics 130, 131, 134 or 327; twelve quarter hours from Physics 131, 132; Chemistry 121 or 150; Chemistry 122 or 151 (minimum of 4 quarter hours must be selected from physics and 4 quarter hours from Chemistry); Geography 300 or 301; Geology 140; Botany 222; Zoology 338. Total, 36 quarter hours.

Music

- Area I: Music 221, 222, 225; four quarter hours chosen from Music 320, 321, 322; eight quarter hours from 136, 137, 138, 146, 147, 148, 200, 201, 231, 320, 321, 322, 380, applied music, ensemble. Total, 24 quarter hours.
- Area II: Music 221, 222, 225. Total, 12 quarter hours.

Physical Education

- Area I: Physical Education (W) 361, 362, 363, 413; eight quarter hours from Health Education 131, Physical Education (W) 132, 356; Physical Education (M) 228, 351. Total, 24 quarter hours.
- Area II: Physical Education (W) 361, 362, 363. Total, 12 quarter hours.

Physical Science

- Area I: Select one of the following sequences: Physical Science 101, Chemistry 121, 122, 155; Physical Science 101, Chemistry 121, 122, 243; Physical Science 101, Chemistry 150, 151, 152; Physical Science 101, Chemistry 150, 151, 155. Select one of the following sequences: Physical Science 100, Physics 110, 111, 131; Physical Science 100, Physics 130, 131, 132; Physics 110, 111, 131, 132; Physics 130, 131, 132, 236; Physics 130, 131, 132, 250. Total, 32 quarter hours.
- Area II: *Option I:* Select one of the following sequences: Physical Science 101, Chemistry 121, 122; Physical Science 101, Chemistry 121, 155. Plus one of the following sequences: Physical Science 100, Physics 110; Physical Science 100, Physics 130; Physics 110, 111; Physics 130, 131. Total, 20 quarter hours.
- Option II:* Physical Science 101, Chemistry 155. Plus one of the following sequences: Physical Science 100, Physics 110, 111; Physical Science 100, Physics 130, 131; Physics 110, 111, 131; Physics 130, 131, 132. Total, 20 quarter hours.

Note: These concentrations include credit for the physical science general education requirement.

Social Studies

This concentration includes credit earned under GER. For the student with 4 or 8 quarter hours of exemption, the requirements presented here will be reduced by 4 or 8 quarter hours in the subject in which the exemption is granted.

Area I: History 233, 234, 235; 8 quarter hours from History 244, 245, 246, 247, 248; Geography 150, 300, 302; 4 quarter hours in political science; 8 quarter hours in anthropology, sociology, economics. Total, 44 quarter hours.

Area II: Eight quarter hours from History 233, 234, 235; 8 quarter hours from History 244, 245, 246, 247, 248; Geography 150, 300, 302; 4 quarter hours from anthropology or sociology; 4 quarter hours from U.S. history, political science or economics.

Special Education

Area I: Education 495, 496, Psychology 450, 455, 360 or Education 543; Speech Pathology and Audiology 260 or 460. Total, 24 quarter hours.

Note: Successful completion of this area with the addition of 8 quarter hours of student teaching in special education will result in certification as a teacher of educable mentally handicapped.

Speech

Area I: Speech 232; Theatre Arts 132, 133, 333, 431; Speech Pathology and Audiology 260. Total, 24 quarter hours.

Area II: Speech 232 or Theatre Arts 431; Theatre Arts 132, 133. Total, 12 quarter hours.

Speech Pathology and Audiology

Area II: Speech Pathology and Audiology 255, 262, 460. Total, 12 quarter hours.

CURRICULUM FOR JUNIOR HIGH SCHOOL TEACHERS

This curriculum is intended to prepare teachers for grades seven, eight, and nine. The student must choose a major field of specialization and minor field of specialization, or three minor fields of specialization.

REQUIRED COURSES

The following constitutes the list of requirements. The student and the advisor cooperate in planning the sequence.

Life Science 100; Botany 101 or Zoology 101.....	8 qtr. hrs.
Education 120, 121.....	2
Education 232, 311, 312, 445.....	16
Education 313 or 314.....	4
Education 441, 442, 443.....	12
English 120, 130, 201.....	12
Geography 150.....	4
Health Education 120.....	4

History 233 or 234 or 235.....	4
History 244 or 245 or 246 or 247 or 248.....	4
Mathematics 125.....	4
Physical Science 100 or Physics 130; Physical Science 101 or Chemistry 120 or Chemistry 150.....	8
Psychology 231, 352.....	8
Speech 131.....	4
Physical Education service courses.....	6
Major subject field (48 quarter hours) and a minor subject field (30-36 quarter hours), or three minor fields.....	78-108
Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions, and elective courses, if necessary, to complete a minimum of 198 quarter hours.	

SUBJECT FIELD SPECIALIZATION**Art**

Field II: Art 140, 244, 309, 319, 465; select sixteen quarter hours other than 245. Total, 36 quarter hours.

Biological Science

Field I: Life Science 100, Botany 101, 222, 230, 234; four quarter hours elective in botany; Zoology 101, 212, 336, 338, 350; four quarter hours elected from botany or zoology. Total, 48 quarter hours.

Field II: Life Science 100, Botany 101, 222, 234; four quarter hours elective in botany; Zoology 101, 338, 348 or 350; four quarter hours elective in zoology. Total, 36 quarter hours.

English

Field I: English 120, 130, 201; 250 or another American literature course; Speech 131; English 126, 226; 246 or 247; 336 or 337 or 338; Library Science 332; eight quarter hours of upper division English electives. Total, 48 quarter hours.

Field II: English 120, 130, 201; 250 or equivalent American literature course; Speech 131; English 126; 246 or 247; Library Science 332; four quarter hours English electives. (Recommended electives, English 226 or 364.) Total, 36 quarter hours.

French

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: French 130, 131, 132, 230, 231, 232, 350, 351, 352, 340; eight quarter hours French electives selected from 400 level courses. Total, 48 quarter hours.

Field II: French 130, 131, 132, 230, 231, 232, 330, 331, 340. Total, 36 quarter hours.

German

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: German 130, 131, 132, 233, 234, 235, 340; (353, 354, 355) or (361, 362, 363); eight quarter hours selected from 400 level courses. Total, 48 quarter hours.

Field II: German 130, 131, 132, 233, 234, 235, 340, 353, 354. Total, 36 quarter hours.

Latin

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: Latin 120, 121, 122, 220, 221, 222; (320, 321, 322) or (330, 331, 332); 340; eight quarter hours from 400 level courses. Total, 48 quarter hours.

Field II: Latin 120, 121, 122, 220, 221, 222; (320, 321) or (330, 331); 340. Total, 36 quarter hours.

Russian

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field II: Russian 140, 141, 142, 250, 251, 340, 360, 361, 363. Total, 36 quarter hours.

Spanish

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: Spanish 130, 131, 132, 230, 231, 232, 340, 321, 322, 323; eight quarter hours selected from courses numbered 400 or above. Total, 48 quarter hours.

Field II: Spanish 130, 131, 132, 230, 231, 232, 321, 322, 340. Total, 36 quarter hours.

Geography

Field II: Geography 150; 142 or 300; 151 or 302; 360 or 387; Geology 140; sixteen quarter hours from Geography 370, 451, 452, 453, 455, 470. Total, 36 quarter hours.

History

Field II: History 233, 234, 235; twelve quarter hours from 244, 245, 246,

247, 248; twelve quarter hours from courses numbered 300 or above.
Total, 36 quarter hours.

Home Economics

Field II: Home Economics 101, 210, 211, 231, 245, 303; 346 or 347; twelve quarter hours from 131, 230, 346, 347, 320, or 420. Total, 36 quarter hours.

Industrial Arts

Field II: Industrial Arts 101, 106, 111, 116, 121, 225, 340 (prerequisite waived), 452; four quarter hours from 222, 202, 212, 307. Total, 36 quarter hours.

Library Science

Field II: Library Science 320; 330 or 332; 430; 450; 460; 490; Education 487, 488. Total, 32 quarter hours.

Mathematics

Field I: Mathematics 222 or (122 and 123), 322, 130,¹ 131,² 134, 235, 236, 327, 470; twelve quarter hours from courses numbered 200 or higher (Education 314 may be used as an elective). Total, 48-50 quarter hours.

Field II: Mathematics 222 or (122 and 123), 322, 130,¹ 131,² 134, 235, 327; four quarter hours from courses numbered 200 or higher. Total, 32-34 quarter hours.

Combined Mathematics—Science

Fields I and II: Mathematics 222 or (122 and 123), 130,* 131,* 134, 235, 327; Physics 130, 131, 132; Chemistry 120, 121, 122 or Chemistry 150, 151, 152; Geology 140; Geography 141 or 301; Geology 243; Life Science 100; Botany 101; Zoology 101; Botany 222 or Zoology 338; *and* mathematics 20 quarter hours *or* physics 12 quarter hours *or* chemistry 12 quarter hours *or* life science 20 quarter hours *or* 12 quarter hours from Geography 242, 244, 346, 381, 447. Total, 88-98 quarter hours, including general requirements.

* If student is exempt, select additional mathematics courses.

Physical Education for Men

Field II: PEM 120, 340, 432; four quarter hours from 203, 205, 206, 207, 208; four quarter hours from 210, 211, 212, 213, 214, 215, 217, 240; eight quarter hours from Health Education 131, PEM 121, 244, 351, 433, PEW 132, 356; Health Education 227. Total, 32 quarter hours.

Physical Education for Women

Field II: Health Education 131, PEW 130, 132 or 356, 233 or 234, 346, 353, 363, 413; four quarter hours from 235, 336, 362, 450, PEM 228, 244, 351, Health Education 320, 227. Total, 36 quarter hours.

¹ Students admitted to Mathematics 131 on basis of placement test should substitute 225 for 130.

² Students admitted to Mathematics 134 on basis of placement test may substitute for 131 any four-quarter-hour mathematics course numbered above 200 and should substitute 225 for 130.

Physical Science

Students selecting physical science as a field of specialization must also select mathematics as a field of specialization.

Field I: Chemistry 234 or 235 and one of the following sequences: Physical Science 101, Chemistry 121, 122; Chemistry 120, 121, 122; Chemistry 150, 151, 152. Select one of the following sequences: Physical Science 100, Physics 110, 111, 131; Physical Science 100, Physics 130, 131, 132; Physics 110, 111, 131, 132; Physics 130, 131, 132, 236; Physics 130, 131, 132, 250. Select 16 quarter hours from Chemistry 234, 243, 244, 245, 346, Physics 132, 236, 239, 240, 250. Total, 48 quarter hours.

Field II: Chemistry 234 or 235 and one of the following sequences: Physical Science 101, Chemistry 121, 122; Chemistry 120, 121, 122; Chemistry 150, 151, 152. Select one of the following sequences: Physical Science 100, Physics 110, 111, 131; Physical Science 100, Physics 130, 131, 132; Physics 110, 111, 131, 132; Physics 130, 131, 132, 236; Physics 130, 131, 132, 250. Select four quarter hours from Chemistry 234, 243, 244, 245, 346, Physics 132, 236, 239, 240, 250. Total, 36 quarter hours.

Social Studies

Field I: History 233, 234, 235; twelve quarter hours from History 244, 245, 246, 247, 248; Geography 150, 300, 302; four quarter hours political science; four quarter hours economics; four quarter hours anthropology or sociology. Total, 48 quarter hours.

Field II: History 233, 234, 235; twelve quarter hours from History 244, 245, 246, 247, 248; Geography 150, 300, 302. Total, 36 quarter hours.

Speech

Field II: English 120, 130; Speech 131, 232; Theatre Arts 132, 133, 445; Speech Pathology and Audiology 260; four quarter hours from Speech 330, 332, 352, Theatre Arts 244, 257, 333, 357. Total, 36 quarter hours.

CURRICULUM FOR ELEMENTARY EDUCATION—SPECIAL EDUCATION

Successful completion of this program results in certification both as an elementary teacher and as a teacher of the educable mentally handicapped. Sixteen quarter hours of student teaching divided equally between elementary education and special education is required.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and advisor will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Art 244 or Industrial Arts 224 or 225	4
Life Science 100, Zoology 101	8
Education 120, 121	2
Education 232, 324, 327, 328, 329, 445, 495, 496	32
Education 441, 442, 443, 444	16

English 120, 130, 201.....	12
Geography 150	4
Health Education 120.....	4
History 233 or 234 or 235.....	4
History 244 or 245 or 246 or 247 or 248.....	4
Mathematics 122, 123, 322; ¹ or 222, 322 ²	8-10
Mathematics 320 or 321.....	2
Music 120, 328.....	8
Physical Education Women 360.....	2
Physical Education service courses.....	6
Physical Science 100, 101.....	8
Psychology 231, 450, 455; 360 or Education 543.....	16
Speech 131	4
Speech Pathology and Audiology 260 or 460.....	4
Select three courses from Education 491, Home Economics 347, Health Education 320, Industrial Arts 224 or 225 or 452, Psychology 447.....	12
Courses to complete the general requirements for the degree, Bachelor of Science in Education, subject to provision for exemptions and elective courses to complete a minimum of 198 quarter hours.	

CURRICULUM FOR ELEMENTARY EDUCATION—SPEECH CORRECTION

This curriculum requires 200 quarter hours less possible exemptions from the general requirements; therefore, students may expect to take more than twelve quarters to complete the program. Successful completion results in certification both as an elementary teacher and as a speech correctionist.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and advisor will cooperate in planning the sequence.

Art 140	4	qtr. hrs.
Art 244 or Industrial Arts 224 or 225.....	4	
Life Science 100, Zoology 101.....	8	
Education 120, 121.....	2	
Education 232, 324, 327, 328, 329, 445.....	24	
Education 441, 442, 443.....	12	
English 120, 130, 201.....	12	
Geography 150	4	
Health Education 120.....	4	
History 233 or 234 or 235.....	4	
History 244 or 245 or 246 or 247 or 248.....	4	
Mathematics 122, 123, 322 ¹ or 222, 322 ²	8-10	
Mathematics 320 or 321.....	2	
Music 120, 328.....	8	
Physical Education, Women, 360.....	2	
Physical Science 100, 101.....	8	
Psychology 231, 450, 451.....	12	

¹ Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

² Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

Speech 131 4

Speech Pathology and Audiology 254, 255, 260, 262, 263,
362, 402, 403, 405, 406, 408, 457 48

Theatre Arts 132 4

Zoology 225 4

Physical Education service courses 6

Courses to complete the general requirements for the degree,
Bachelor of Science in Education, subject to provision for
exemptions, and elective courses, if necessary, to com-
plete a minimum of 198 quarter hours.

The addition of Psychology 360, 361, and Education 444 is recommended,
but not required.

**CURRICULUM FOR HIGH SCHOOL AND SPECIAL AREA
TEACHERS—MAJORS AND MINORS**

The majors and minors, both departmental and interdepartmental, which
may be submitted in fulfillment of the specialization for high school and spe-
cial area teachers are outlined in this section. General and professional re-
quirements outside the major and minor fields are described elsewhere in
the catalog.

A course in methods is included in the outline for each major unless work
in methods of teaching is given in other required major courses. Work in
methods is included in several of the minors, also. Some departments have a
two-quarter-hour methods course for the minor.

Certification to teach in a general field (e.g., Business) in Illinois high
schools does not necessarily permit the teaching of a specific subject in that
field; for details, the student should consult Bulletin Series A, No. 160, Office
of Public Instruction.

The prescriptions for majors and minors have been filed with, and ap-
proved by, the State Teacher Certification Board. They are used as a basis
for cards of entitlement.

Art

Major: (Standard Special Certificate. No minor required.)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341	52 qtr. hrs.
Elective courses in Art*	36
Total	88 qtr. hrs.

* The elective courses must comprise 24 or 28 quarter hours in a major concentration, comple-
mented by 12 or 8 quarter hours in a minor concentration. These are defined as follows:

- Major Area I: Painting, drawing, print making
- Major Area II: Ceramics, jewelry, sculpture, weaving
- Minor Areas: Art education, art history, commercial design, the
alternate major area

Study in two phases of the major area is required.

Major: (Standard High School Certificate)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262,

270, 340, 341	52	qtr. hrs.
Elective courses in art	8	
	—	
Total	60	qtr. hrs.

Minor:

Art 100 or 101; 205; 110 or 111 or 140; 225 or 270 or 334; 244 or 340; 341; one course chosen from Art 160, 260, 261, 262, 360, 361, 362; four quarter hours elective credit in art	32	qtr. hrs.
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Biological Sciences**Minor:**

Life Science 100	4	qtr. hrs.
Botany 101, 222; 234 or 335	12	
Zoology 101, 212, 343; 348 or 350	16	
Electives in botany numbered 300 or above	4	
Life Science 341*	2	
	—	
Total	36	qtr. hrs.

Note: For other minors in Biological Sciences, see Botany Minor and Zoology Minor.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or Physical Science 340.

Botany**Major: (Standard High School Certificate)**

Life Science 100, 340; Botany 101, 222, 229, 230	24	qtr. hrs.
Electives in botany	28	
Zoology 101, 212; 214 or 225; 343; 348 or 350	20	
Electives in zoology	8	
Chemistry 120, 121, 122; or Chemistry 150, 151, 152 ..	12	
Geography 141 or Geology 140	4	
Total, including correlative courses and a minor in zo-		
ology	96	qtr. hrs.

(Major GPA based on life science and botany courses only.)

Minor:

Life Science 100; Botany 101, 222	12	qtr. hrs.
Electives in botany	12	
Zoology 101, 212	8	
Electives in zoology	4	
Life Science 341*	2	
	—	
Total	38	qtr. hrs.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or in Physical Science 340.

Business Education

The student may choose either a 76-quarter hour major with a minor in a second teaching field or a 92-quarter hour comprehensive major.

Major: Minor in a non-business teaching field required. (Standard High School Certificate)

The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Management 141, 142	8	qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8	
Three courses from Business Education 123, 124, 125, 223, 224, 225	12	
Accounting 230, 231, 232; Management 346, 347	20	
Business Education 312	4	
Two courses to be chosen from Business Education 340, 342, 344	8	
Elective courses in business	4	
Economics 254, 255, 256	12	
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Total, including correlative courses	76	qtr. hrs.

Accounting Option:

Management 141, 142	8	qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8	
Accounting 230, 231, 232	12	
Elective courses in accounting	12	
Business Education 312	4	
Management 346, 347	8	
Business Education 340; 342 or 344	8	
Elective courses in business	4	
Economics 254, 255, 256	12	
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Total, including correlative courses	76	qtr. hrs.

Secretarial Option:

Business Education 140; Management 141, 142	12	qtr. hrs.
Business Education 210, 211, 223, 224, 225	20	
Business Education 312	4	
Management 346, 347; Business Education 342, 344	16	
Elective courses in business	12	
Economics 254, 255, 256	12	
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Total, including correlative courses	76	qtr. hrs.

Comprehensive Major: No minor required. (Standard High School Certificate)

The student may choose one of three options: Comprehensive Secretarial, Comprehensive Basic Business, or Vocational Business Education. The program in Vocational Business Education leads to certification as a Reimbursable Vocational Business Teacher if student has appropriate work experience as required by the Illinois Board of Vocational Education and Rehabilitation.

Comprehensive Secretarial option:

Two courses from Business Education 111, 112, 210, 211	8	qtr. hrs.
Three courses from Business Education 124, 125, 223, 224, 225	12	
Management 141, 142	8	
Accounting 230, 231, 232	12	
One course from Marketing 247, 248, 250	4	
One course from Management 251, 345, Business Education 453	4	
Management 230, 346, 347	12	
Business Education 312	4	
Two courses from Business Education 340, 342, 344	8	
Two elective courses in business	8	
Economics 254, 255, 256	12	
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Total, including correlative courses	92	qtr. hrs.

Comprehensive Basic Business option:

Two courses from Business Education 111, 112, 210, 211	8	qtr. hrs.
Management 141, 142	8	
Accounting 230, 231, 232	12	
One course from Marketing 247, 248, 250	4	
One course from Management 251, 345, Business Education 453	4	
Management 230, 346, 347	12	
Three elective courses in Accounting	12	
Business Education 312	4	
Business Education 340, 344	8	
Two elective courses in business	8	
Economics 254, 255, 256	12	
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Total, including correlative courses	92	qtr. hrs.

Comprehensive Vocational Business Education option:

Two courses from Business Education 111, 112, 210, 211	8	qtr. hrs.
Management 141, 142	8	
Accounting 230, 231, 232	12	
One course from Marketing 247, 248, 250	4	
One course from Management 251, 345, Business Education 453	4	
Management 230, 346, 347	12	
Business Education 312	4	
Three courses from Business Education 490, 492, 493, 494	12	
Either three courses from Business Education 124, 125, 223, 224, 225 and one from 342, 344 OR three courses from Marketing 247, 248, 249, 250 and Business Education 344	16	

Economics 254, 255, 256	12	
Total, including correlative courses	92	qtr. hrs.
(Major GPA based on all business courses taken.)		

Minor: (Four options)

Secretarial Option:

Two courses from Business Education 111, 112, 210, 211	8	qtr. hrs.
Three courses from Business Education 123, 124, 125, 223, 224, 225	12	
Business Education 312	4	
Business Education 342 or 344	4	
Elective in business	4	
Total	32	qtr. hrs.

Typewriting and Bookkeeping Option:

Two courses from Business Education 111, 112, 210, 211	8	qtr. hrs.
Accounting 230, 231, 232; Business Education 312	16	
Business Education 340 or 344	4	
Elective in business	4	
Total	32	qtr. hrs.

General Business Option:

Management 141, 142; Accounting 230, 231, 232	20	qtr. hrs.
Management 346, 347	8	
Business Education 340	4	
Total	32	qtr. hrs.

Accounting Option:

Accounting 230, 231, 232, 354, 355	20	qtr. hrs.
One course from Accounting 360, 363, 461	4	
Management 251; Business Education 340	8	
Total	32	qtr. hrs.

Chemistry

Major: (Standard High School Certificate)

Chemistry 150 (or 120, 121), 151, 152	12	qtr. hrs.
Chemistry 283, 284, 285, 330	20	
Chemistry 461, 470, 491, 492, 493	20	
Physical Science 340	4	
Chemistry 342	1	
Mathematics 134, 135, 235, 236	16	

Physics 130, 131, 13212

Total, including correlative courses85 qtr. hrs.

(Major GPA based on Physical Science 340 and chemistry courses only.)

Minor:

Chemistry 150 (or 120, 121), 151, 15212 qtr. hrs.

Chemistry 234 (or 330), 243, 244 (or 283, 284) ...12-15

Electives in chemistry and/or physics.....12-9

Physical Science 341* 2

Total38 qtr. hrs.

* Physical Science 341 may be omitted if the student has credit in Physical Science 340, Geography 340, or Life Science 340.

English

Major: (Standard High School Certificate)

English 126, 226, 245, 246, 247, 250, 251; 336 or 337

or 338; 34036 qtr. hrs.

Electives in English numbered above 201, except Eng-

lish 322 and 45920

History 343, 344 8

Foreign language (a single language)24

Total, including correlative courses88 qtr. hrs.

(Major GPA based on English courses only.)

Minor:

English 245, 246, 247; 336 or 337 or 338; 340*; two

other English courses numbered above 201, except

English 322 and 459; Speech 13132 qtr. hrs.

* English 340 may be omitted if the student has credit in a methods course in any of the foreign languages or in speech.

Foreign Language—French

Major: (Standard High School Certificate)

French 330, 331, 332, 34016 qtr. hrs.

Courses chosen from French 230, 231, 232, 350, 351,

352, 410, 411, 412, 456, 457, 458, 510, 511, 512

including at least twelve quarter hours in courses

numbered above 40036

History 233 or 235; 246 or 247 8

Total, including correlative courses60 qtr. hrs.

(Major GPA based on French courses only.)

Note: Students with a background of high school units in French do not receive credit for beginning courses in university French. See page 175.

Foreign Language—German

Major: (Standard High School Certificate)

German 340, 361, 354, 410	16 qtr. hrs.
Courses chosen from German 233, 234, 235, 353, 355 362, 363, 411, 412, 453, 454, 455, 510, 511, 512 including at least twelve quarter hours in courses numbered above 400	36
History 235, 248	8

Total, including correlative courses60 qtr. hrs.

(Major GPA based on German courses only.)

Note: Students with a background of high school units in German do not receive credit for beginning courses in university German. See page 175.

Foreign Language—Latin

Major: (Standard High School Certificate)

Latin 340	4
Courses chosen from Latin 220, 221, 222, 320, 321, 322, 330, 331, 332, 433, 434, 435, 450, 451, 452, 510, 511, 512 including at least twelve quarter hours in courses numbered above 400	48
History 233 or 234 or 235; 244	8

Total, including correlative courses60 qtr. hrs.

(Major GPA based on Latin courses only.)

Note: Students with a background of high school units in Latin do not receive credit for beginning courses in university Latin. See page 175.

Foreign Language—Spanish

Major: (Standard High School Certificate)

Spanish 340, 327, 410, 415	16 qtr. hrs.
Courses chosen from Spanish 230, 231, 232, 321, 322, 323, 411, 456, 457, 458, 510, 511, 512 including at least twelve quarter hours in courses numbered above 400	36
History 233, 234	8

Total, including correlative courses60 qtr. hrs.

(Major GPA based on Spanish courses only.)

Note: Students with a background of high school units in Spanish do not receive credit for beginning courses in university Spanish. See page 175.

Minor:

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor consists of thirty quarter hours in a single foreign language. For a student with high school credits in that language the thirty quarter hour requirement is reduced by 1.5 quarter

hours for each high school unit up to a maximum reduction of six quarter hours. The college work in the language must include the two-quarter-hour methods course (341) in that language unless the student has credit in a four-quarter-hour methods course (340) in some other foreign language.

Note: Students with a background of high school units in a foreign language do not receive university credit for beginning courses in that language. See the chart at the beginning of the Foreign Language section of "Description of Courses."

Geography

Major: (Standard High School Certificate)

Geography 150; 151 or 302; 141 or 142; 340	16	qtr. hrs.
Courses in geography approved by the head of the Department of Geography	36	
Economics 254, 255	8	
	—	
Total	60	qtr. hrs.
(Major GPA based on geography courses only.)		

Minor:

Geography 141, 142, 150, 151, 340*, and eight quarter hours in geography courses approved by the department; or Geography 300, 301, 302, 340*, and twelve quarter hours approved by the department	28	qtr. hrs.
Three courses in history, economics, sociology, or political science	12	
	—	
Total	40	qtr. hrs.

* Geography 340 may be omitted if the student has credit in Social Science 340.

Health Education

Minor:

Health Education 120, 227, 320	12	qtr. hrs.
Zoology 348	4	
Psychology 455	4	
One or two courses from Life Science 100, or Zoology 101, 225; and course(s) chosen from Home Economics 303; Botany 335, Health Education 131, 300, 330	12	
	—	
Total	32	qtr. hrs.

History

Major: (Standard High School Certificate)

History 233, 234, 235, 244, 245, 246, 247, 248	32	qtr. hrs.
Electives in history numbered 300 or higher	20	
Social Science 340	4	
Economics 254, 255, 256	12	

Electives in sociology or anthropology	12
Electives in political science	12
Geography 150	4

Total, including correlative courses96 qtr. hrs.

(Major GPA based on Social Science 340 and history courses only.)

Note: The student is certified for the Standard High School Certificate with major in history and minor in social sciences.

Minor:

History 233, 234, 235	12 qtr. hrs.
Three courses from History 244, 245, 246, 247, 248 ...	12
Electives in history numbered 300 or higher	12
Social Science 340*	4

Total40 qtr. hrs.

* Social Science 340 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

Home Economics

Major: (Standard Special Certificate. No minor required.)

Home Economics 101, 102, 131, 201, 210, 211, 212, 230, 231, 245, 300, 301, 302, 320, 340, 345, 346, 347, 431	72 qtr. hrs.
Chemistry 153, 154, 155; Botany 234	16
Sociology 271; Economics 254, Anthropology 273 or Sociology 473	12

Total100 qtr. hrs.

(Major GPA based on home economics courses only.)

Minor:

Home Economics 101, 210, 211, 231, 245, 303, 340; 346 or 347	28 qtr. hrs.
Electives chosen from Home Economics 131, 230, 320, 420, 346, 347	12

Total40 qtr. hrs.

Industrial Arts

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 101, 141, 205, 340	16 qtr. hrs.
Four courses to be selected one each from electronics, graphic arts, industrial crafts, metals and woods ..	16
Concentrations. The student will choose two subject areas for additional work of sixteen quarter hours each from electronics*, graphics*, graphic arts, metals*,	

* Students choosing the subject areas of electronics, graphics or metals must take Mathematics 125, 126; or 130, 131. Physics is strongly recommended to fulfill three of the required science courses.

and woods32

Total64 qtr. hrs.

Note: Vocational Technical Teaching Option may be satisfied through the selection of Industrial Arts 458, 491, and 492. While there is not a requirement for work experience for the baccalaureate degree, there is a requirement of the State Board of Vocational Education for work experience in the subject area to be taught. See the Director of the School of Industrial Arts and Technology.

Minor:

Industrial Arts 101, 141, 205, 34016 qtr. hrs.

Basic subject area courses to be chosen from electricity,
graphic arts, industrial crafts, metals and woods . .12

Industrial arts electives8

Total36 qtr. hrs.

Journalism

Minor:

Journalism 210, 211, 212, 310, 311, 31224 qtr. hrs.

An advanced course in English composition4

Total28 qtr. hrs.

Latin American Studies

Major: (An interdisciplinary major. Standard High School Certificate.)

Spanish24 qtr. hrs.*

History 281, 282, 464, 46516

Electives chosen from Anthropology 360, Economics
490, Geography 351, 451, Political Science 481,
493, Sociology (four quarter hours by consulta-
tion with advisor), Spanish or Spanish-American
literature (Portuguese when available). A maxi-
mum of twelve quarter hours at the 300 or higher
level for this category of the requirement28 qtr. hrs.**

(Major GPA based on all specific courses required in the major
as well as on all Spanish courses.)

Additional courses to satisfy requirements for Standard High School
Certificate; either through completing the requirements for a
major and a minor, or the requirements for three minors. The
total number of quarter hours depends upon the choice of these
additional courses.

* The student with a background in Spanish is considered to have completed the requirement when he has passed twelve quarter hours of college work in Spanish courses at the 200 or higher level.

** Spanish or Spanish-American literature courses, at the 300 or higher level, may apply toward the twenty-four quarter hour Spanish requirement as well as toward this twenty-eight quarter hour requirement.

Library Science

Minor:

Library 320, 430, 450, 460, 490; 330 or 332	24	qtr. hrs.
For certification for instructional materials, add Education 487, 488	8	
Total	24 or 32	qtr. hrs.

Manual Arts Therapy

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 101, 141, 205, 340	16	qtr. hrs.
Four courses chosen one each from electronics, graphic arts, industrial crafts, metals and woods	16	
Concentrations. Majors will choose two subject areas for additional work of sixteen quarter hours each from electronics, graphics, graphic arts, metals, and woods	32	
Advanced courses in psychology	12	
Electives in sociology	12	
Total	88	qtr. hrs.
(Major GPA based on industrial arts courses only.)		

Mathematics

Major: (Standard High School Certificate)

Mathematics 134, 135, 235, 236, 237, 327, 328, 340, 344, 353, 470, 471; 232 or 231	49 or 52	qtr. hrs.
One course chosen from: Mathematics 350, 354, 455, 458, 460, 490, 491	4	
Total	53 or 56	qtr. hrs.

Minor:

Mathematics 134, 135, 235, 236, 237, 327, 341, 353, 470	34	qtr. hrs.
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Music

Major: (Standard Special Certificate. The student chooses one of three options: Instrumental, Vocal, or General).

Instrumental Music Option:

A. Instrumental Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146, 151, 200, 201, 203, 204, 205, 230, 231, 232, 240, 340; 347 or 455; 351, 352, 353, 381, 447	74	qtr. hrs.
Applied Instrument (Principal)	22	
Instrumental Ensemble	6	
Total	102	qtr. hrs.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138, 146, 151, 200, 201, 203, 204, 205, 230, 231, 232, 240, 340; 347 or 455; 351, 352, 353, 381, 447	71	qtr. hrs.
Applied Keyboard	22	
Applied Instrument (Secondary)	3	
Instrumental Ensemble	6	

Total102 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 151; five courses from 146, 200, 201, 203, 204, 205; 226, 227, 228, 230, 231, 232, 240, 340, 381; 347 or 455; 351, 352, 353, 447	75	qtr. hrs.
Applied Composition	22	
Instrumental Ensemble	6†	

Total103 qtr. hrs.

Vocal Music Option

A. Vocal Principal: Music (126, 127, 128)*; 130, 131, 132, 146, 151, 200, 204; (226, 227, 228)*; 230, 231, 232, 240, 243, 244, 245, 339; 472 (taken twice); 454; 351, 352, 353, 380, 447	75	qtr. hrs.
Applied Voice	22	
Vocal Ensemble	6†	

Total103 qtr. hrs.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138, 146, 151, 200, 204, 230, 231, 232, 236, 237, 238, 240, 246, 247, 248, 339; 347 or 455; 351, 352, 353, 362, 380, 447	75	qtr. hrs.
Applied Keyboard	22	
Vocal Ensemble	6†	

Total103 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 151; two courses from 146, 200, 204; 226, 227, 228, 230, 231, 232, 240, 236, 237, 238, 243, 244, 245, 339, 380; 347 or 455; 351, 352, 353, 447	75	qtr. hrs.
Applied Composition	22	
Vocal Ensemble	6†	

Total103 qtr. hrs.

General Music Option:

Music 130, 131, 132, 151, 230, 231, 232, 240, 338, 339, 351, 352, 353; 380 or 381; 447	56	qtr. hrs.
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* When keyboard skills are advanced, singers may be assigned to private instruction—6 q. hrs., minimum requirement.

† Participating in an ensemble organization is encouraged during each year of residence.

Applied Music (Instrumental, Vocal, Keyboard, or Composition Principal)	16
Piano—Keyboard Principal: Music 246, 247, 248; Vocal, Instrumental, and Composition Principal: Music 126, 127, 128 or Music 226, 227, 228, or Music 246, 247, 248, depending upon student's keyboard skills	3
Ensemble	3†
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	78 qtr. hrs.

Minor:

Vocal Option

Music 130, 131, 132, 230, 231, 339, 353, 380, four quarter hours in applied piano, six quarter hours in applied voice	42 qtr. hrs.
Participation for at least six quarters in a university choral organization is required.	

Instrumental Option:

Music 130, 131, 132, 230, 231, 200, 201, 204, 205, 340, 353, 381, four quarter hours in applied instrumental music	44 qtr. hrs.
Participation for at least six quarters in a university instrumental organization is required.	

Physical Education, Men

Major: (Standard High School Certificate)

PEM 120, 121, 150, 244, 340, 431, 432, 433, PEW 450	.36 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	. 2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 217, 240	2
Three courses chosen from PEM 347*, 348*, 349*, 350*, 357, 358, 359, 360, with at least two from those marked with *	12
Life Science 100; Zoology 101, 225, 348	16
Physical Education service courses ¹	9

Total, including correlative courses77 qtr. hrs.

(Major GPA based on physical education courses only.)

Minor:

PEM 120, 340, 432	12 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	. 2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 217, 240	2

† Participating in an ensemble organization is encouraged during each year of residence.
¹ The student must complete nine one-quarter-hour service courses (it is recommended that the student take only one course per quarter); these courses to include PEM 100, swimming, dance, and a contact sport. Teaching practicum must include an assignment in the minor.

Four courses chosen from PEM 121, 244, 347, 348, 349, 350, 431, 433	16
Physical Education service courses ¹	9
	—
Total	41 qtr. hrs.

Physical Education, Women

Major: (Standard Special Certificate)

PEW 130, 132, 233, 234, 235, 252, 336, 346, 353, 410, 411, 450, PEM 244	52 qtr. hrs.
Health Education 131, 320	8
Life Science 100, Zoology 101, 225, 348	16
The student must take twenty-two quarter hours in ac- tivity courses, at the rate of two courses each quar- ter for eleven quarters	22
	—
Total, including correlative courses	98 qtr. hrs.
(Major GPA based on physical education courses only.)	

Minor:

PEW 233 or 234; 346; 353; 413	16 qtr. hrs.
Health Education 227 or 320	4
Three courses from PEW 130, 132, 233, 234, 252, 336, 355, 356, PEM 244, 351, Health Education 131, 227, 320	12
The student must take eleven quarter hours in activity courses	11
	—
Total	43 qtr. hrs.

Physics

Major: (Standard High School Certificate)

Physics 130, 131, 132	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 466, 467	28
Electives from physics numbered 200 or above	8
Physical Science 340	4
Mathematics 134, 135, 235, 236, 237	20
Two courses from Mathematics 350, 351, 460, 461	8
Chemistry (strongly recommended)	12
	—
Total, including correlative courses	80-92 qtr. hrs.
(Major GPA based on Physical Science 340 and physics courses only.)	

Minor:

Physics 130, 131, 132	12 qtr. hrs.
Electives in physics as approved by the head of the de- partment	12

¹ The student must complete nine one-quarter-hour service courses (it is recommended that the student take only one course per quarter); these courses to include PEM 100, swimming, dance, and a contact sport.

Electives in physics and/or chemistry	12
Physical Science 341*	2
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Total	38 qtr. hrs.

* Physical Science 341 may be omitted if the student has credit in Geography 340, Life Science 340, or Physical Science 340.

Psychology

Minor:

Psychology 231, 234; 352 or 447	12 qtr. hrs.
Electives in psychology	20
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Total	32 qtr. hrs.

Safety and Driver Education

Minor: (May be used only as a second minor.)

Health Education 330, 331, 332	12 qtr. hrs.
Three courses from Health Education 131, 227, 300, 320, PEM 433, Psychology 447, 455, Political Sci- ence 112, 364	12
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Total	24 qtr. hrs.

Social Science

Major: (Standard High School Certificate)

The major consists of courses in economics, political science, anthropology, sociology, and geography; history courses to complete a minor are also required.

Core Courses:

Economics 254, 255, 256; Anthropology 273; Sociology 271, 272; Political Science 110, 111; one course from Political Science 100, 112, 220, 221, 222	36 qtr. hrs.
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Additional Courses:

Geography	4
Social Science 340	4
Courses from economics, political science, sociology- anthropology; (may be in one field or distributed in three fields)	24
History 233, 234, 235, 246, 247, 248	24
Electives in history numbered above 300	8
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Total	100 qtr. hrs.

(Major GPA based on social science, economics, sociology, anthropology, and political science courses only.)

Minor:

Two of the following options:

- a. Economics 254, 255, 256.

b. Political Science 110, 111; 100 or 112 or 220 or 221 or 222.	
c. Anthropology 273; Sociology 271, 272	24 qtr. hrs.
Electives from anthropology, sociology, economics, ge- ography, history, political science	12
Social Science 340*	4
	—
Total	40 qtr. hrs.

* Social Science 340 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

Speech

Major: (Standard High School Certificate)

Speech 230, 232, 234, 252, 340	20 qtr. hrs.
Theatre Arts 132, 133, 257, 445	16

One of the following options:

a. Three courses from Speech 320, 453, 470, 480	
b. Three courses from Speech 470; 352 or 452; 320 or 480	
c. Three courses from Speech 352, 452, 453, 470, 490	12
Elective: Any speech course other than 131	4
Three of the following: Speech 101, 102, 103, 301, 302, 303	3
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Total	55 qtr. hrs.
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With the consent of the Head of the Department, Speech 400 may be substituted for any of the above requirements.

Note: A minor other than in the field of theatre arts is required.

(Major GPA based on Theatre Arts 132, 133, 257, 445, and speech courses only.)

Minor:

General Speech Option:

Speech 131, 232, 340, and one speech elective	16 qtr. hrs.
Theatre Arts 132, 133, 445	12 qtr. hrs.
English 120 and 130 are included for certification	8
	—
Total	36 qtr. hrs.

Public Address Option:

Speech 131, 230, 232, 234, 340	20 qtr. hrs.
Theatre Arts 132, 133	8
English 120, 130 are included for certification	8
	—
Total	36 qtr. hrs.

Speech Pathology and Audiology

Major: (Special Certificate in Speech Correction)

Speech Path. & Aud. 254, 255, 260, 262, 263, 362, 402, 403, 405, 406, 408, 457	48	qtr. hrs.
Theatre Arts 132	4	
Psychology 450, 451	8	
Three courses from Psychology 360, 452, 455, Education 328, 444, 490, 528	12	
Zoology 225	4	
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Total, including correlative courses76 qtr. hrs.
(Major GPA based on Theatre Arts 132 and speech
pathology and audiology courses only.)

Note: Because of requirements of the American Speech and Hearing
Association, the student is advised to earn the master's degree as soon as
possible.

Theatre Arts

Major: (Standard High School Certificate)

Theatre Arts 132, 133, 240, 244, 257, 333, 357, 358, 445, 473	40	qtr. hrs.
Speech 232, 234, 340	12	
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Total	52	qtr. hrs.

Note: A minor other than in the field of speech is required.
(Major GPA based on Speech 232, 234, 340, and theatre arts
courses only.)

Minor:

Theatre Arts 132, 133, 244, 257, 445.....	20	qtr. hrs.
Speech 131, 340*	8	
English 120, 130 are included for certification	8	
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Total	36	qtr. hrs.

* Speech 340 may be omitted if the student has credit in English 340.

Zoology

Major: (Standard High School Certificate)

Life Science 100, 340	8	qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445	32	
Electives in advanced zoology courses	12	
Botany 101, 222, 229, 230; 233 or 335; two courses in botany numbered 300 or above	28	
Chemistry 120, 121, 122; or 150, 151, 152	12	
Geology 140	4	
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Total, including correlative courses and minor in botany .96 qtr. hrs.
(Major GPA based on Life Science 100, 340, and
zoology courses only.)

Minor:

Life Science 100, 341*	6 qtr. hrs.
Zoology 101, 212; 214 or 225; 343; 348 or 350	20
Botany 101, 222; one course numbered 229 or above ..	12

Total 38 qtr. hrs.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or in Physical Science 340.

BACHELOR OF SCIENCE IN HOME ECONOMICS

The degree, Bachelor of Science in Home Economics, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented by elective credit to meet the minimum graduation requirement of 198 quarter hours. Courses in professional education and methods of teaching are not acceptable for elective credit.

GENERAL REQUIREMENTS

The general requirements are those shown for professional degrees except that Health Education 120 is not mandatory.

SPECIALIZATION

Specialization for the degree, Bachelor of Science in Home Economics, offers a choice of three basic curricula—Dietetics, Family Services, and Home Economics in Business. The curriculum, Home Economics in Business, has two options—Foods and Nutrition or Clothing and Merchandising.

DIETETICS

Anthropology 273	4 qtr. hrs.
Botany 234	4
Accounting 230	4
Management 251, 345	8
Marketing 247	4
Chemistry 120, 121, 155, 346	16
Economics 254	4
Education 332	4
Home Economics 102, 210, 211, 212, 302, 310, 312, 340, 360, 401	40
Psychology 231, 351	8
Sociology 271, 473	8
Zoology 101, 348, 349	12

Total 116 qtr. hrs.

FAMILY SERVICES

Anthropology 273	4 qtr. hrs.
Economics 254	4
Education 490	4
Home Economics 101, 102, 231, 245, 300, 302, 320, 346, 347, 370, 430	40

Psychology 231, 350, 451, one elective in psychology	16
Sociology 271, 272, 360, 381, 475, one elective in sociology	24
Total	92 qtr. hrs.

HOME ECONOMICS IN BUSINESS

Anthropology 273	4 qtr. hrs.
Management 141; Marketing 247, 486	12
Chemistry 153, 154, 155	12
Economics 254	4
Home Economics 102, 300, 320, 370, 380, 390	24
Psychology 231	4
Sociology 271, 473	8
Option I or Option II	42-48
Total	110-116 qtr. hrs.

Option I—Foods and Nutrition

Botany 234	4 qtr. hrs.
Management 142; Marketing 250	8
Journalism 312	4
Psychology 351 or 447	4
Home Economics 210, 211, 212, 233, 235, 302	24
Home Economics 310 or 345	4
Total	48 qtr. hrs.

Option II—Clothing and Merchandising

Marketing 248, 249	8 qtr. hrs.
Home Economics 101 and/or 201	4-8
Home Economics 131, 231, 232, 233, 235, 301, 401, 420	30
Total	42-46 qtr. hrs.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The degree, Bachelor of Science in Industrial Technology, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented if necessary by elective courses to meet the minimum graduation requirement of 198 quarter hours. Courses in professional education and methods of teaching are not acceptable for elective credit.

GENERAL REQUIREMENTS

The general requirements (and exemptions) are the same as those prescribed for the degree, Bachelor of Science in Education, except that a course in American history is not mandatory in fulfilling the social studies requirement. Suitable courses in the specialization are applied toward the general requirements.

SPECIALIZATION

Specialization for the degree, Bachelor of Science in Industrial Technology provides for three options: Electronics, Light Building Construction, and Metal Work.

Art 100 and 110 and/or 111	8-12	qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12	
Economics 254, 255, 357	12	
Industrial Arts 101, 106, 116, 222, 202 or 303, and 306 ...	24	
Industrial Safety*	4	
Industrial Technology 204, 370, 400, 404	16	
Management 383, 434, and 251 or 345	12	
Mathematics 130, 131, 134, 234	16	
Physics 130, 131, 132	12	
Psychology 353	4	
Option and electives	32	

Total 152-156 qtr. hrs.

Option I—Metal Work

Industrial Arts 307, 310, 409	12	qtr. hrs.
Industrial Technology 460, 464	8	

Option II—Light Building Construction

Industrial Arts 301, 302, 321, 323	14	qtr. hrs.
Industrial Technology 205, 401, 402, 424	10	

Option III—Electronics

Physics 250	4	qtr. hrs.
Industrial Technology 416, 417	8	
Industrial Arts 216, 217, and Ind. Tech. 316 recommended	12	

NOTE: Recommended electives outside the School of Industrial Arts and Technology: Management 230, 346, 435; Geography 360; Sociology 381.

BACHELOR OF SCIENCE IN RECREATION

The degree, Bachelor of Science in Recreation, is conferred upon successful completion of a minimum of 198 quarter hours in courses which satisfy two sets of requirements: general and specialization.

GENERAL REQUIREMENTS

English 120, 130, 201	12	qtr. hrs.
Speech 131	4	
Health Education 120	4	
Life Science 100; Zoology 101, 225, 348	16	
Elective in Mathematics	4	
One course in U.S. History	4	
Political Science 112	4	
Sociology 272, 365, 381	12	

* Course in Preparation.

Two courses in English literature	8
One course in Philosophy	4
Music 229	4
Art 360	4

SPECIALIZATION

Art 334	4
Economics 485	4
Geography 387	4
Geology 140	4
Industrial Arts 452	4
Education 232	4
Psychology 231, 447	8
Theatre Arts 431	4
Health Education 131, 330	8
PEM 228, 351, 378, 470, 471, 474, 476, 479	32
PEW 132, 252, 355, 356, 473	20
Physical Education service courses	6
Electives	16
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Total	198 qtr. hrs.

COOPERATIVE DEGREE PROGRAMS**MEDICAL TECHNOLOGY**

This program is administered by the Division of Pre-Medical Studies.

The curriculum in medical technology requires three years of study at Eastern Illinois University, followed by successful completion of a one-year program in medical technology in an affiliated hospital.

Course Requirements:

Botany 101, 335	8 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12
Chemistry 234, 243, 244	12
Mathematics: Four quarter hours of mathematics required regardless of exemptions. Eight hours are required if student has no exemptions	4 or 8
Psychology 231	4
Life Science 100; Zoology 101, 225	12
Zoology 327 and one elective course in zoology	8
Physical Education service courses	6
Courses to complete the general requirements for the degree, Bachelor of Science, and elective courses	84-80
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Total	150

The hospital program in medical technology is accepted in lieu of the remaining forty-eight quarter hours to complete the normal graduation requirement.

ENGINEERING

This program is administered by the Division of Pre-Engineering Studies.

The curriculum has been planned to comprise three years of work at Eastern Illinois University and approximately two years of subsequent work in the College of Engineering at the University of Illinois. The degree, Bachelor of Science or Bachelor of Arts, is conferred by Eastern Illinois University upon the granting of an engineering degree at the University of Illinois after completion of the prescribed program. The purpose of this program is to provide engineering students with a broader base of liberal arts than is usually given in a four-year engineering curriculum.

Students who plan to enroll in this curriculum should have included in high school the courses recommended as preparation for the two-year pre-engineering curriculum described in Section IX.

The three years of work to be taken at Eastern Illinois University prior to transferring to the University of Illinois comprise:

General Requirements:

The general requirements for the degree, Bachelor of Science, or the degree, Bachelor of Arts.

Specific Courses:

Chemistry 150 (or 120 and 121), 151, 152

Physics 130, 131, 132, 236, 239, 240

Mathematics 134, 135, 235, 236, 237, 350

Industrial Arts 104

Six physical education service courses

Electives:

Elective credit to bring the total to 150 quarter hours.

After completing 102 quarter hours in this curriculum a student may apply to the pre-engineering committee for admission as an engineering candidate. The requirements for admission as an engineering candidate are minimum grade-point average of 2.5 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.5.

The concentration in science and engineering is accepted in lieu of a major. If the complete record of a student includes the requirements for one or more majors as defined in the majors for the degrees, Bachelor of Science and Bachelor of Arts, these will also be certified on the student's record.

A student who transfers into this curriculum from another college or university must be in residence at Eastern Illinois University for at least one quarter before he becomes eligible for admission as an engineering candidate.

PRE-MEDICINE

This program is administered by the Division of Pre-Medical Studies.

There are two pre-medical curriculum plans which may lead to the degree, Bachelor of Science or Bachelor of Arts.

PLAN I:

This plan provides for the conferring of the baccalaureate degree with a major in zoology and a minor in chemistry upon completion of three years of stated requirements at Eastern Illinois University and forty-eight quarter

hours of specified courses at the College of Medicine at the University of Illinois. Students who enter other medical schools will be considered on an individual basis.

The requirements for graduation are as follows:

General Requirements:

The general requirements for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122
Chemistry 234, 243, 244
Life Science 100; Zoology 101, 212, 214, 215
Physics 130, 131, 132
Six physical education service courses

Electives:

Elective credit to bring the total course work at Eastern Illinois University to 150 quarter hours.

Transfer Credit:

The transfer of forty-eight quarter hours of approved credit from the University of Illinois College of Medicine. The transfer of this credit is contingent upon the following:

1. The student must be in good standing in the College of Medicine.
2. Residence requirements for a baccalaureate degree at Eastern Illinois University must have been met.

The following courses at the College of Medicine are acceptable to complete the major and minor at Eastern Illinois University:

1. Biochemistry 301, 302, 303 (66 hours in lecture and 88 hours in laboratory—9 quarter hours)
2. Physiology 301, 302, 303 (90 hours in lecture and 49 hours in laboratory—15 quarter hours)
3. Histology (64 hours in lecture and 160 hours in laboratory—12 quarter hours)
4. Gross Anatomy (64 quarter hours in lecture and 160 hours in laboratory—12 quarter hours)

PLAN II:

This plan leads to the degree, Bachelor of Science or Bachelor of Arts, prior to entering medical school. The plan provides for either an interdepartmental pre-medical studies major or a regular departmental major and minor.

The requirements for graduation are as follows:

General Requirements:

The student must meet all of the general requirements for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

If the interdepartmental major is chosen, the student must complete the following courses:

Chemistry 150, 151, 152; or 120, 121, 122

Chemistry 234, 243, 244

Chemistry electives—12 quarter hours

Life Science 100; Zoology 101, 212, 214, 215

Zoology electives—16 quarter hours

Physics 130, 131, 132

Mathematics 134, 235, 236

The student who chooses to complete a departmental major and minor will follow the regular requirements for the degree, Bachelor of Science or Bachelor of Arts.

Admission to Candidacy:

Students are required to make application for admission as pre-medical studies candidates upon completing sixty quarter hours of courses and before completing eighty-four quarter hours of credit. Requirements for approval of this application include a minimum grade-point average of 2.5 and approval by the pre-medical committee. The pre-medical committee will consider grades in science courses, impressions and findings resulting from personal interview, and the advice of the University physician regarding the physical fitness of the candidate.

Students who are not approved as candidates must transfer from the Division of Pre-Medical Studies into another curriculum.

Continuation as a pre-medical studies degree candidate requires the maintenance of a minimum grade-point average of 2.5.

A student who transfers from another institution to Eastern Illinois University must be in residence at least one quarter before he can be admitted as a pre-medical studies degree candidate. He must meet all residence requirements for a baccalaureate degree.

PRE-LAW

There is no formal curriculum for pre-legal studies. Students are referred to advisors who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with a major and a minor in standard academic disciplines. See the Political Science Department for further information.

WOOD SCIENCE AND TECHNOLOGY

This cooperative degree program is administered by the Department of Botany at Eastern Illinois University (the first two-years phase) and the College of Agriculture at the University of Illinois. The degree B.S. in Forestry is awarded by the University of Illinois upon successful completion of their four-year program designed to prepare students to work with wood as a raw material. Wood technologists are concerned with new and better ways to use wood, with seasoning, manufacturing, purchase, sale, preservative and fire-retardant treatment, gluing, and finishing of wood. Upon completion of the

two-year phase at Eastern Illinois University the student transfers to the University of Illinois by registering (in May of his second year) in the Forestry Summer Camp, an eight-weeks program at Blackfoot, Minnesota.

English 120, 130, 201	12	qtr. hrs.
Health Education 120	4	
Speech 131	4	
Chemistry 150 ¹ , 151, 152, 243	16	
Life Science 100	4	
Botany 101, 233	8	
Mathematics 130, 131, 134 ²	12	
Physics 130, 131, 132	12	
Industrial Arts 104	4	
Economics 254	4	
Humanities ³	8	
Social Science ³	8	
Physical Education	6	

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¹ Chemistry 120, 121, 122 may be substituted for Chemistry 150, 151, 152 if the student does not have the prerequisites for Chemistry 150.

² Qualified students may substitute Mathematics 132, 134, 135; or 134, 135, 235. See the prerequisites for these courses given with the course descriptions.

³ The humanities two-course sequence and the social science two-course sequence should be selected from a list of approved sequences which may be obtained from the advisor.

VIII. GRADUATE DEGREE PROGRAMS

GRADUATE STUDY

ADMISSION AND READMISSION

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university. Admission to courses is not to be interpreted as admission to candidacy for a degree.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least thirty days before the first registration for graduate courses. Former students who return to the University after a lapse of one or more quarters must apply for readmission at least ten calendar days prior to the official registration day of the quarter in which they wish to enroll. Application blanks may be secured from the office of the Dean of the Graduate School.

GRADUATE STUDY IN THE SENIOR YEAR

During the final quarter of residence in undergraduate work, a student may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The proper application forms must be completed prior to enrolling in the graduate courses.

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in the major field departments and certain administrative offices. The assistantships carry a stipend of \$270 per month and appointments are for the academic year or summer sessions. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses. Further information on assistantships may be obtained by writing to the Dean of the Graduate School or the major department.

GRADUATE DEGREES OFFERED

MASTER'S DEGREES

MASTER OF SCIENCE IN EDUCATION DEGREE

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Fields

- Art
- Audio-Visual Education
- Biological Sciences
- Business Education
- Educational Administration
- Elementary Education
- English
- Foreign Languages

Geography
 Guidance and Counseling
 History
 Home Economics
 Industrial Arts
 Mathematics
 Music
 Physical Education—Men
 Physical Education—Women
 Physical Sciences
 Social Sciences
 Speech
 Speech Pathology and Audiology

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following departments have been authorized to offer the Master of Arts and Master of Science degrees:

Master of Arts

Economics
 English
 French
 Geography
 History
 Mathematics
 Music
 Political Science
 Spanish
 Speech

Master of Science

Botany
 Chemistry
 Physical Education
 Physics
 Speech Pathology and Audiology
 Zoology

MASTER OF BUSINESS ADMINISTRATION

Aim. The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

SPECIALIST DEGREES*

SPECIALIST IN EDUCATION DEGREE

Aim. It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel in educational administration.

Field. The Specialist in Education degree is offered in the field of educational administration.

* Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

SPECIALIST IN COLLEGE TEACHING DEGREE

Aim. The purpose of this program is to prepare instructors of undergraduate subjects, particularly at the freshman and sophomore levels, in both the junior and senior college.

Field. The Specialist in College Teaching degree is offered in the field of mathematics.

GRADUATE DEGREE PROGRAM REQUIREMENTS

For detailed descriptions of the various graduate programs offered at Eastern Illinois University, see the *Graduate Bulletin*. Catalogs, application blanks and other materials may be obtained by writing to the Dean of the Graduate School.

IX. NON-DEGREE PROGRAMS

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his advisor without the formality of application for a waiver, except that English 120, 130, Speech 131, and service courses in physical education must be taken as indicated.

PRE-ENGINEERING

These programs are administered by the Division of Pre-Engineering Studies.

GENERAL

Students planning to enroll in pre-engineering are advised to include the following subjects in their high school programs.

Mathematics—4 or more units, including trigonometry

Science—3 or more units, including chemistry and physics

Foreign Language—2 or more units, including two units in the same language

Students deficient in any of these courses should expect their graduation from a College of Engineering to be delayed.

First Year

English 120, 130, Industrial Arts 104	12 qtr. hrs.
Mathematics 134, 135, 235	12
Physics 130, 131, 132	12
Chemistry 150 (or 120 and 121), 151, 152	12
Physical Education service courses	3

Note: Students who do not have prerequisites for Mathematics 134 must start with either 130 and 131, or 132; see course descriptions in Section X for prerequisites.

Second Year

English 201	4 qtr. hrs.
Mathematics 236, 237, 350	12
Physics 236, 239, 240	12
Humanities and social science as outlined by advisor ...	20
Physical Education service courses	3

Note: Students who do not have two years in the same foreign language in high school should add twelve quarter hours in a foreign language.

CHEMICAL

First Year

Chemistry 150 (or 120 and 121), 151, 152	12 qtr. hrs.
English 120, 130	8
Industrial Arts 104	4
Mathematics 134, 135, 235	12

Note: Students who do not have prerequisites for Mathematics 134 must

start with either 130 and 131, or 132; see course descriptions in Section X for prerequisites.

Physics 130, 131, 132	12
Students lacking two units in high school German, French, or Russian should enroll in one of these languages and postpone Physics 130, 131, 132 to the second year.	
Physical Education service courses	3

Second Year

Chemistry 283, 284, 285	12	qtr. hrs.
Mathematics 236, 237, 350	12	
Physics 236, 239	8	
English 201	4	
Foreign Language (one year French, German, or Russian)	12	
Physical Education service courses	3	

Note: Physics 130, 131, 132 should be substituted here if language was taken in first year.

Two years of French, German, or Russian are required in the chemical engineering curriculum at most universities.

PRE-MEDICAL AND RELATED STUDIES

These programs are administered by the Division of Pre-Medical Studies.

PRE-DENTISTRY

The courses in this curriculum will enable the student to become a candidate for admission to most schools of dentistry. It is strongly urged, however, that students complete three years of pre-dental work. All applicants will be required to take a dental aptitude test given by the American Dental Association.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12	qtr. hrs.
English 120, 130, 201	12	
Speech 131	4	
Mathematics 130	4	
Life Science 100, Zoology 101, 214	12	
Elective	4	
Physical Education	3	

Second Year

Chemistry 234, 243, 244	12	qtr. hrs.
Physics 130, 131, 132	12	
Electives	24	
Physical Education	3	

Note: It is recommended that the electives include history, economics, philosophy, sociology, and a modern language.

PRE-NURSING

Eastern Illinois University does not have a baccalaureate program in nursing. It is possible for students to complete one year at this institution and then transfer to the University of Illinois College of Nursing for the remaining three years. The first year program includes basic courses in chemistry, zoology, English, social studies and humanities.

PRE-OPTOMETRY

Schools of optometry usually require two years of pre-professional work.

First Year

English 120, 130	8 qtr. hrs.
Speech 131	4
Chemistry 120, 121, 122; or 150, 151, 152	12
Life Science 100; Zoology 101, 225	12
Mathematics 130, 131, 134	12
Physical Education	3

Second Year

Physics 130, 131, 132	12 qtr. hrs.
Psychology 231	4
Elective (Social studies, humanities, history)	32
Physical Education	3

PRE-PHARMACY*One Year*

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Mathematics 130, 131, 134	12
Electives to be selected in terms of the requirements of the College of Pharmacy selected by student ...	16

PRE-VETERINARY MEDICINE

This two-year program is designed to prepare students for admission to schools of veterinary medicine. Four years of professional study, preceded by two years of college study, are required in typical schools.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130, 201	12
Speech 131	4
Mathematics 130	4
Life Science 100	4
Botany 101	4
Zoology 101	4
Elective ...	4
Physical Education	3

Second Year

Chemistry 234, 243, 244	12 qtr. hrs.
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Physics 130, 131, 132	12
Foreign Language	12
Electives	12
Physical Education	3

Note: The recommended electives should include no fewer than two of the following fields: history, anthropology, economics, geography, political science, psychology, or sociology.

PRE-AGRICULTURE, HORTICULTURE, FLORICULTURE, AND FORESTRY

First Year

English 120, 130, Speech 131	12	qtr. hrs.
Life Science 100; Botany 101, 222	12	
Chemistry 120, 121; or 150, 151	8	
Health Education 120	4	
Electives	12	
Physical Education	3	

Second Year

Botany 229, 232, 233 or 335	12	qtr. hrs.
Geology 140 or elective	4	
Zoology 101, 212	8	
Electives	24	
Physical Education	3	

Students who plan to study vocational agriculture should take Psychology 231 and Education 232.

Students who plan to study forestry should take Chemistry 122 or 152 and Mathematics 130, 131, 134 in the first year. The second year's program should be planned after consultation with the College of Forestry the student plans to enter.

Recommended electives: Botany 230, Zoology 214, 338, Geography 141, 142, 151, Geology 140, 243, History 233, 234, 235, Economics 254, 255, 256.

PRE-CONSERVATION

A sub-professional curriculum which has been developed with the advice of administrators and technicians of the Soil Conservation Service is offered.

First Year

English 120, 130, Speech 131	12	qtr. hrs.
Mathematics 130	4	
Life Science 100	4	
Botany 101, 222	8	
Chemistry 120, 121, 122; or 150, 151, 152	12	
Geography 141	4	
Geology 140	4	
Physical Education service courses	3	

Second Year

Zoology 101, 212	8	qtr. hrs.
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Geography 142, 286, 380, 387, 360	20
Industrial Arts 104	4
History 234, 235	8
Electives	8
Physical Education service courses	3

PRE-JOURNALISM

The program suggested below is designed to provide a general background for prospective journalism majors. Students should modify the following two-year program to meet the requirements of the journalism school they plan to attend.

First Year

English 120, 130, Speech 131	12 qtr. hrs.
Laboratory Science	12
Journalism 210, 211, 212	12
Foreign Language	12
Physical Education	3

Second Year

English 260, 261; 250 or 270	12 qtr. hrs.
History 233, 234, 235	12
Electives	24
Physical Education	3

Note: Recommended electives: History 246, 247, 248; Industrial Arts 315; Economics 254, 255, 256; Political Science 100, 110, 111, 112; Sociology 271, 272; Music 229.

PRE-LAW

There is no formal curriculum for pre-legal studies. Students are referred to advisors who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with a major and a minor in standard academic disciplines. See the Political Science Department for further information.

X. DESCRIPTION OF COURSES

NUMBERING OF COURSES

Generally, courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses; and 500-599, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

CLASS			COURSES NUMBERED		
Freshman	100	200	a	a	
Sophomore	100	200	<u>300</u>	a	
Junior	100	200	300	400	
Senior	100	200	300	400	500-549b
Graduate				450-499c	500-690

- a. Courses numbered 300-499 in foreign languages, mathematics, and chemistry may be taken by underclassmen who have prerequisites and permission of the department head.
- b. With 3.0 GPA and permission of instructor and Dean of Graduate School.
- c. Certain courses only.

A student may not enroll in a course which is prerequisite for a course for which he had credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

COLLEGE OF LETTERS AND SCIENCE

Anthropology	143
Art	144
Botany	152
Chemistry	157
Economics	162
English	166
Foreign Languages	175
Geography	187
Geology	193
History	195
Journalism	202
Library Science	203
Life Science	204
Mathematics	205
Philosophy	212
Physical Science	215
Physics	216
Political Science	221
Psychology	226
Social Science	228
Sociology	229
Speech	232
Speech Pathology and Audiology	235
Theatre Arts	239
Zoology	240

ANTHROPOLOGY

(Taught in the Department of Sociology)

UNDERGRADUATE COURSES**273. Introduction to Anthropology.** Every quarter. (4 q. hrs.)

A study of the races of the world, preliterate culture, kinship systems, major institutions and social structure.

325. Social Structure. Winter. (4 q. hrs.)

A review of descriptive techniques and the methods of structural and functional analysis used by social anthropologists in the study of preliterate groups.

Prerequisite: Anthropology 273.

360. Peoples and Cultures of South America. Fall. (4 q. hrs.)

The pre-Colombian background; contemporary races, culture and social organization of selected Latin American societies. The emergence of Latin America as a distinct culture area in the modern world.

Prerequisite: Anthropology 273.

365. Introduction to Physical Anthropology. Winter. (4 q. hrs.)

An investigation of man's place in nature with particular emphasis upon the principles of biological evolution as reflected by the fossil evidence of man's evolution.

Prerequisite: Anthropology 273.

367. Introduction to Prehistoric Archaeology. Fall. (4 q. hrs.)

A systematic introduction to the history, method, and theory of archaeology which investigates the aims of archaeology and the interpretation and analysis of prehistoric cultures.

Prerequisite: Anthropology 273.

368. Midwest Prehistory. Spring. (4 q. hrs.)

A study of midwestern archaeology including both major cultures and regional variations. Their chronology and interrelationships will be stressed.

Prerequisite: Anthropology 273.

369. North American Indians. Winter. (4 q. hrs.)

A survey of the native population of North America stressing the importance of cultural adaptation to environment.

Prerequisite: Anthropology 273.

372. Archaeology of the Middle East. Summer and Spring. (4 q. hrs.)

A study of the origins and prehistory of man in the Tigrus-Euphrates Valley, the Anatolian Peninsula, and the eastern Mediterranean regions as a basis for an understanding of modern civilizations.

Prerequisite: Anthropology 273.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**454. Theories of Culture and Social Change.** Spring. (4 q. hrs.)

An investigation of anthropological theories and models which have contributed to an understanding of culture and social change throughout the world. Particular emphasis is placed upon theories of urbanization and acculturation.

Prerequisite: Anthropology 273.

470. Field Techniques in Archaeology. Summer. (6 q. hrs.)

The techniques, methods, and procedures of archaeology will be discussed and practiced in actual working conditions on an archaeological excavation.

Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 471.

471. Laboratory Techniques and Problems in Archaeology. Summer. (6 q. hrs.)

Laboratory work in the field; studying, evaluating, and writing final reports on the associated fieldwork.

Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 470.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

552. Cultural Anthropology. Summer. (4 q. hrs.)

An introduction to the scientific study of man and his culture. Cross cultural comparison of the major social institutions.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

ART

Note: Studio courses meet for three double periods and one single period which is used for planning, discussions, and reports. Additional discussions may be incorporated into the studio hours.

Certain courses require the purchase of materials by the student. In such cases, completed projects become the property of the student. The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES**100. Drawing I.** Every quarter. (4 q. hrs.)

Freehand drawing in various media; studies from nature designed to develop an interpretative approach.

101. Drawing II. Every quarter. (4 q. hrs.)

Drawing from life; a development of individual expression and a continuing study of drawing technique.

Prerequisite: Art 100. For art majors and minors only.

110. Design I. Every quarter. (4 q. hrs.)

Introduction to basic aspects of design problems dealing with color, texture, line, form, and organization.

Credit is not granted to students who have received credit in Art 140.

111. Design II. Every quarter. (4 q. hrs.)

Development of three-dimensional organization of forms using various media.

Credit is not granted to students who have received credit in Art 319. For majors and minors only in art, industrial arts, and industrial technology.

140. Introduction to Art. Every quarter. (4 q. hrs.)

Study of the functions of art in our environment. Studio problems provide creative experiences in designing with a variety of two and three-dimensional media.

Prerequisite: Enrollment in a curriculum for elementary or junior high school teachers. Credit is not granted to students who have received credit in Art 110.

160. Introduction to Visual Arts. Fall and Winter. (4 q. hrs.)

Nature of art as revealed in works of painting, sculpture, architecture, and minor forms of art.

For art majors and minors only.

165. Theory and Fundamentals of Art. Every quarter. (4 q. hrs.)

Consideration of the basic aspects of the creation of form in the two-dimensional and three-dimensional visual arts. Studies in theory are coordinated with applications of theory through studio experiences.

May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is in art or to students whose major is in the School of Elementary and Junior High School Teaching. Not open to students who have credit for Art 360.

205. Painting I. Every quarter. (4 q. hrs.)

Introduction to painting as a medium of expression; variety of approaches and media explored.

Prerequisite: Art 100 and 110.

225. Ceramics I. Every quarter. (4 q. hrs.)

Introduction to various hand-building techniques; decorative methods; firing process; use of potter's wheel.

Prerequisite: Art 110 or 111. For art majors and minors only.

244. Art for Teachers in the Elementary Grades. Every quarter. (4 q. hrs.)

Development stages of children's artistic activity; motivation, classroom management, and appropriate use of art media for each stage stressed. Studio experiences with wide variety of art media.

Prerequisite: Art 140.

260. History of Art I. Fall. (4 q. hrs.)

Development of visual arts from pre-historic time to the medieval period; their use by man in his natural and social environment; the architecture, sculpture, painting, weaving, pottery, and other crafts of Egypt, Mesopotamia, Crete, Greece, and Rome.

For art majors and minors only.

261. History of Art II. Winter. (4 q. hrs.)

Art of the medieval period; the Renaissance through the seventeenth century; architecture of the Romanesque and Gothic periods; painting of the Renaissance; brief survey of the art of the Far East.

Prerequisite: Art 260. For art majors and minors only.

262. History of Art III. Spring. (4 q. hrs.)

General survey concerning the artistic achievements of man from the beginning of Mannerism to the present.

Prerequisite: Art 261. For art majors and minors only.

265. Fundamental Concepts of Two-Dimensional Form. Every quarter. (4 q. hrs.)

An investigation through discussion and studio experimentation of some of the major concepts of two-dimensional form. Historical and cultural aspects will be considered in conjunction with the visual form.

Prerequisite: Art 165 or 360. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is art or to students whose major is in the School of Elementary and Junior High School Teaching.

266. Fundamental Concepts of Three-Dimensional Form. Every quarter. (4 q. hrs.)

Considerations of the unique characteristics of three-dimensional form through discussion and studio application. The emphasis is placed upon the relevance of the three-dimensional aesthetic object to the general culture.

Prerequisite: Art 165 or 360. May be used as partial fulfillment of the humanities requirement. Not open to students whose major or minor is in art or to students whose major is in the School of Elementary and Junior High School Teaching.

270. Introduction to Jewelry I. Every quarter. (4 q. hrs.)

Decorative and constructive processes in the use of silver or other metals.

Prerequisite: Art 110 or 111 or 140.

280. Introduction to Weaving. Every quarter. (4 q. hrs.)

Procedures involved in dressing the loom. Production of various weaves on the loom and experimentation with color, textures, and materials.

Prerequisite: Art 110 or 140.

290. Lettering. Fall. (4 q. hrs.)

Design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush.

Prerequisite: Art 110 or 140 or permission of the instructor.

300, 301, 302. Drawing III, IV, V. Every quarter. (4 q. hrs. for each course.)

Advanced drawing designed to develop individual sensitivity to form in two dimensions; development of an expressive and personal interpretation of dark and light shapes on a flat surface.

Prerequisite: Art 100 and 101.

305, 306, 307. Painting II, III, IV. Every quarter. (4 q. hrs. for each course.)

Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses.

Prerequisite: Art 205.

309. Survey of Two-Dimensional Art. Winter and Spring. (4 q. hrs.)

Studio experiences in fine, medium, and broad line media to provide the student with basic knowledge of aesthetic expression through experiences in two-dimensional media.

Prerequisite: Art 140 and enrollment in a curriculum for elementary or junior high school teachers.

310, 311, 312. Sculpture I, II, III. Every quarter. (4 q. hrs. for each course.)

Advanced work in three-dimensional organization of form; individual concentration toward competent expression in modeling, carving, and constructing.

Prerequisite: Art 111.

319. Survey of Three-Dimensional Art. Fall and Spring. (4 q. hrs.)

A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts. Materials, skills and techniques necessary to create three-dimensional art forms.

Credit is not granted to students who have received credit in Art 111.
Prerequisite: Art 140 and enrollment in a curriculum for elementary or junior high school teachers.

325. Ceramics II. Every quarter. (4 q. hrs.)

Projects in hand building or throwing; study of glaze materials and glaze calculations.

Prerequisite: Art 225.

326. Ceramics III. Every quarter. (4 q. hrs.)

Continued study of glazes with emphasis on color; problems in hand building or throwing.

Prerequisite: Art 325.

327. Ceramics IV. Every quarter. (4 q. hrs.)

Individual selection of ceramic problems including ceramic sculpture, porcelain, whitewares.

Prerequisite: Art 326.

334. General Crafts. Winter and Spring. (4 q. hrs.)

General course in crafts in which students may elect to work in problems such as mosaics, glass, and wood.

Prerequisite: Art 110 or 140.

340. The Teaching of Art. Fall and Spring. (4 q. hrs.)

Philosophy of art education; study of the developmental stages of creative activity from the first representational attempts through the sixth grade; appropriate studio experiences with use of art media, motivation, and evaluation for each stage.

Prerequisite: Admission to teacher education.

341. Art Education for Secondary Schools. Fall and Winter. (4 q. hrs.)

The study of the philosophy and special problems related to teaching art in the junior and senior high school, with appropriate studio experiences with materials, motivation, evaluation, and appreciation.

Prerequisite: Art 340.

356. Print Making I. Fall and Winter. (4 q. hrs.)

Survey and laboratory exploration of four methods of print-making: relief, intaglio, planography, and stencil.

Prerequisite: Art 100 and 101.

357. Print Making II. Fall and Winter. (4 q. hrs.)

Intensive exploration of intaglio and serigraphy as two methods of print making; major emphasis on the intaglio method.

Prerequisite: Art 356.

358. Print Making III. Fall and Winter. (4 q. hrs.)

Advanced study of the relief and planographic methods of print making.

Prerequisite: Art 356.

360. Understanding Art. Every quarter. (4 q. hrs.)

Aesthetic problems and their solutions in various fields of art as related to man and his culture.

Not open to students whose major is in art. This course is recommended for meeting the humanities requirement. Credit is not granted to students who have credit for Art 165.

361. Art in Past Cultures. Every quarter. (4 q. hrs.)

Comparative study of subject, form and content in art of past cultures as it relates to purpose and style.

Prerequisite: Art 165 or 360. Not open to students whose major is in art. This course is recommended for meeting the humanities requirement.

362. Art Forms of the Twentieth Century. Every quarter. (4 q. hrs.)

Origins and developments of form and content in twentieth century art.

Prerequisite: Art 165 or 360. Not open to students whose major is in art. This course is recommended for meeting the humanities requirement.

363. Classical Art. (Omitted 1969-70.) (4 q. hrs.)

Greek and Roman art, including architecture, painting, sculpture and the minor arts; study of major figures and dominant stylistic tendencies.

Prerequisite: Art 262 or 360.

364. Medieval Art. Winter. (4 q. hrs.)

Arts of the Middle Ages in respect to the Early Christian, Byzantine, Romanesque, and Gothic, emphasizing in particular the transition from pagan art forms to Christian art forms.

Prerequisite: Art 262 or Art 360.

365. Art of the Italian Renaissance. Spring. (4 q. hrs.)

Evolution and development of art forms in Italy during the fifteenth and sixteenth centuries; emphasis on the painting, sculpture and architecture of Florence, Rome, and Venice.

Prerequisite: Art 262 or Art 360.

366. European Art of the 17th and 18th Centuries. Fall. (4 q. hrs.)

Special attention is given to the development of the Baroque style in Italy and Northern Europe. The study also embraces Rococo manifestations and relationships with the Baroque movement.

Prerequisite: Art 261 or 360.

367. Nineteenth Century European Painting. (Omitted 1969-70.) (4 q. hrs.)

Leading artists, movements and trends found in the painting and culture of France, Germany, Spain and England during the nineteenth century.

Prerequisite: Art 262 or 360.

368. Twentieth Century Painting and Sculpture, 1905-c.1940.

(Omitted 1969-70.) (4 q. hrs.)

Major developments, personalities, and significant achievements in painting and sculpture of the twentieth century with emphasis on Picasso, Matisse, Klee, Brancusi, Calder, and Moore.

Prerequisite: Art 262 or 360.

369 (463). Twentieth Century Architecture. Summer. (4 q. hrs.)

Architecture of the twentieth century; its roots in the past, its forms, its materials, its masters, and its social impact.

Prerequisite: Art 262 or 360.

370, 371, 372. Jewelry and Silversmithing II, III, IV. Winter and Spring.
(4 q. hrs. for each course.)

Advanced problems in jewelry construction developing previously learned techniques in metal construction; introduction to basic silversmithing processes.

Prerequisite: Art 270.

380. Weaving II. Every quarter. (4 q. hrs.)

Study of the theory of weaving and continued work on multi-harness looms to perfect weaving skills. Designing and experimenting with various intricate weaves and materials of the weaver.

Prerequisite: Art 280.

390. Commercial Design I. Winter. (4 q. hrs.)

Lettering, posters, layout, current advertising problems. Silk screen, air-brush, and other printing techniques.

391. Commercial Design II. Spring. (4 q. hrs.)

Display advertising; concentration on three-dimensional design.

405, 406, 407. Painting V, VI, VII. Every quarter. (4 q. hrs. for each course.)

Advanced painting in a series of individual problems courses; opportunity for further intensive development of each student's creative expression and craftsmanship.

Prerequisite: Art 307.

410, 411, 412. Sculpture IV, V, VI. Every quarter. (4 q. hrs. for each course.)

Advanced study of sculpture with an increasing depth of experience in form and material. Organization of an individual plan of work at a mature level.

Prerequisite: Art 312.

425, 426, 427. Ceramics V, VI, VII. Every quarter. (4 q. hrs. for each course.)

Development of techniques and processes to a level of professional attainment; emphasis upon growth in the area in which the student is most interested.

Prerequisite: Art 327.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

462. Art in America. (Omitted 1969-70.) (4 q. hrs.)

Architecture, painting, and sculpture from colonial times to the present; emphasis on leading artists and their works as related to historical and sociological events in the growth of America.

Prerequisite: Art 262 or 360.

465. The Visual Arts in the Elementary and Junior High School. Winter and Spring. (4 q. hrs.)

Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage.

Prerequisite: Art 244. Not open to students whose major is in art.

469. Studies in Art History and Criticism. Summer. (4 q. hrs.)

Seminar studies in painting, sculpture and architecture.

Prerequisite: Permission of the instructor.

475. The Sources and Methods of Art History. Spring. (4 q. hrs.)

A study of archaeological and documentary sources relative to the writing of art history. An examination of pertinent literature and the practice of library research involving the systematic correlation of factual information.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

476. The Art of the Ancient Near East. (Omitted 1969-70.) (4 q. hrs.)

A study of the art of the Tigris-Euphrates Valley cultures from about 3500 to 500 B. C. Emphasis is put on the artistic achievements of the Sumerians, Babylonians, Hittites, Assyrians, and Persians.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

477. Art of Ancient Egypt. Summer. (4 q. hrs.)

A study of the evolution of architectural monuments and their attendant art from the Predynastic era to the Ptolemaic period.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Materials for Designing I. Fall and Winter. (4 q. hrs.)

Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

520. Painting Problems I. Fall. (4 q. hrs.)

Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each according to individual choice.

Prerequisite: Three undergraduate courses in painting.

550. Contemporary Trends in Visual Arts. (Omitted 1969-70.) (4 q. hrs.)

Role and evaluation of visual arts in contemporary living.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Great Artists. Summer. (4 q. hrs.)

A cross-section of art history presented by the study of great artists.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Contemporary Printmaking. Fall. (4 q. hrs.)

A study of styles and techniques of contemporary printmakers.

Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.

560. Materials for Designing II. Winter. (4 q. hrs.)

Advanced study of organization of form employing a variety of materials.

561. Advanced Drawing. Winter. (4 q. hrs.)

Development of personal expression in drawing and marking systems.

Prerequisite: Three courses in undergraduate drawing or permission of the instructor.

562. Watercolor. (Omitted 1969-70.) (4 q. hrs.)

Advanced study in various watercolor media.

Prerequisite: Three courses in undergraduate painting.

570. Painting Problems II. Every quarter. (4 q. hrs.)

Independent study in painting.

Prerequisite: Art 520.

571. Painting Problems III. Every quarter. (4 q. hrs.)

Emphasis is placed upon the construction and development of form.

Prerequisite: Art 570.

580. Research in Art Education. (Omitted 1969-70.) (4 q. hrs.)

Familiarization with research in art education, the study of methods and structure of research, and the initiation of research projects.

Restricted to art majors only.

591. Problems in Art Education. Every quarter. (4 q. hrs.)

Statement, analysis and evaluation of current problems in the teaching of art in the public schools and junior college.

595. Thesis. (4 q. hrs.)

BOTANY

UNDERGRADUATE COURSES

Classes in all courses except Botany 232 and 350 meet in two single sessions and two double sessions each week.

101. General Botany. Every quarter. (4 q. hrs.)

A course designed to introduce the students to the anatomy, physiology,

and morphology of the seed plant and to the diversification of plants in the plant kingdom.

Prerequisite: Life Science 100.

222. General Local Flora. Fall, Spring and Summer. (4 q. hrs.)

Plant distribution; identification of trees, shrubs and herbs and the lesser plants by appropriate keys; knowing and appreciating common plants.

Prerequisite: Botany 101.

229. Morphology of Lower Plants. Every quarter. (4 q. hrs.)

A comparative study of algae and fungi with emphasis on their vegetative morphology and life histories.

Prerequisite: Botany 101.

230. Morphology of Higher Plants. Every quarter. (4 q. hrs.)

A comparative study of the vegetative structure and life histories of the higher plants.

Prerequisite: Botany 101.

232. Economic Botany. Every quarter. (4 q. hrs.)

Plant propagation and environmental requirements of the greenhouse and field; plant products and their origins in world commerce and their use in manufacture. Field trips are taken to observe some of these activities.

Prerequisite: Botany 101; Botany 222 recommended.

233. Applied Plant Physiology. Spring. (4 q. hrs.)

Physical processes relating to plant growth and development; water relations; soils and soil formation; mineral nutrition.

Prerequisite: Botany 101. A year of chemistry is recommended.

234. Food and Sanitary Microbiology. Every quarter. (4 q. hrs.)

A course in microbiology for the Home Economics, Health Education, Elementary and Junior High curricula with emphasis on the identification and culture of bacteria, yeasts, molds, etc., and their relation to food preservation and sanitation.

Prerequisite: One quarter of chemistry and an additional quarter of laboratory science. Not to count toward a botany major or minor.

335. Bacteriology. Every quarter. (4 q. hrs.)

A study of the occurrence, distribution, and culture of bacteria and other micro-organisms with emphasis on morphology and physiology.

Prerequisite: Three quarters of biological sciences and three quarters of chemistry.

345. Independent Study. Any quarter. (4 q. hrs.)

The student must submit an outline of his plan of work to the Department Head for approval and assignment to an instructor.

Prerequisite: Botany major or minor.

350. Genetics. Winter. (4 q. hrs.)

Problems of heredity in living organisms; Mendelian inheritance, hybrid segregation, fluctuations and mutations and the genetic background necessary to explain inheritance.

Prerequisite: Life Science 100 and two additional courses in laboratory science; chemistry recommended.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Plant Microtechnique.** Winter. (4 q. hrs.)

The techniques of preparing permanent microscopic slides of plant material and an understanding of the part played by staining in producing superior teaching and research material.

Prerequisite: Botany 456 recommended.

454. Experimental Plant Physiology. Spring. (4 q. hrs.)

A qualitative and quantitative study by experiments and demonstrations of the biochemical processes that result in the growth and development of plants and the application of this knowledge in solving plant growth problems.

Prerequisite: Botany 233 and one year of chemistry.

456. Plant Anatomy. Spring. (4 q. hrs.)

The origin and development of the tissues of leaves, stems, and roots of seed plants; the common ecological variations and hereditary types; wood anatomy and identification.

Prerequisite: Botany 230.

459. Systematic Botany. Fall. (4 q. hrs.)

A study of the common flowering plant families of Illinois and current trends in plant classification and plant analysis. Field trips are made for the observation and collection of plants from various habitats.

Prerequisite: Botany 222.

461. Plant Ecology. Fall. (4 q. hrs.)

A study of the major plant formations of North America with emphasis on the factors which influence the development of local communities. Week-end and local field trips are part of the course.

Prerequisite: Botany 222 and two advanced courses in botany or related fields. Botany 233 and 459 are recommended.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Plant Geography. Winter, Summer. (4 q. hrs.)

Study of the dominant plants of the biomes of North America and the major factors determining both their general distribution and local variations

thereof. Consultation of original sources and discussion of both current and historically important research in the discipline.

Prerequisite: Botany 461.

530. Phycology. Spring. (4 q. hrs.)

A comparative morphological and physiological survey of the major groups of algae, including both fresh-water and marine forms.

Prerequisite: Botany 229.

532. Bryology. Fall. (4 q. hrs.)

A study of mosses and liverworts emphasizing their taxonomy, morphology, physiology, and ecology. Field work including identification, collections and herbarium methods plus research techniques are an important part of the work.

Prerequisite: Botany 230.

535. Advanced Bacteriology. Fall. (4 q. hrs.)

A systematic study of the important bacteria associated with health and sanitation of man; including work on infection, immunity, and serological procedures.

Prerequisite: Botany 335; Chemistry 234, 243, 244, or permission of instructor.

536. The Lower Fungi. Winter or Summer. (4 q. hrs.)

A comparative morphological, taxonomic, and ecological study of the major groups of Phycomycetes and related fungi. Emphasis is given to individual work in the collection, culturing, and identification of representative groups.

Prerequisites: Botany 231; Botany 335 is recommended.

537. The Higher Fungi. Spring or Summer. (4 q. hrs.)

A comparative morphological, taxonomic, and ecological study of the major groups of Ascomycetes and Basidiomycetes. Emphasis is given to individual work in the collection, culturing, and identification of representative groups.

Prerequisites: Botany 231; Botany 335 is recommended.

538. Plant Pathology. Fall. (4 q. hrs.)

The causes and controls of plant diseases; considerations of representative plant diseases incited by bacteria, fungi, nematodes, and viruses.

Prerequisite: Botany 229.

540. Paleobotany. Fall or Summer. (4 q. hrs.)

A study of plant evolution through a consideration of the structure, phylogeny, ecology and geological distribution of fossil plants. Procedure for the collecting, identifying, and preparing for study of plant fossils are included.

Prerequisites: Botany 230 and 231; Geology 243 is recommended.

545. Ethnobotany. Winter or Summer. (4 q. hrs.)

A study of the relationships between man and his ambient vegetation.

Attention is given to the interrelations of primitive man and plants. Field work and a research paper are an important part of the course.

Prerequisites: Botany 101 or by permission of Instructor.

547. Advanced Plant Physiology—Inorganic Nutrition. Fall or Summer.
(4 q. hrs.)

A study of the physical and chemical nature of soils; absorption, translocation, and function of the essential mineral elements; and mineral element deficiency diseases.

Prerequisites: Botany 454 and Chemistry 243 or 346.

548. Advanced Plant Physiology—Metabolism. Winter or Summer.
(4 q. hrs.)

A study of the metabolic processes involved in the growth and development of plants. Topics considered include respiration, photosynthesis, carbohydrate metabolism, and organic translocation.

Prerequisites: Botany 454 and Chemistry 243 or 346.

550. The Science of Plant Life. Summer. (4 q. hrs.)

Fundamentals of plant science as experienced in everyday living and the common problems of the agriculturist and the home gardener.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Systematic Botany and Local Flora. Summer. (4 q. hrs.)

Identification of the trees, shrubs, herbs and lesser plants in this area; recognition of the common families of seed plants; appreciation of the plants outdoors and their geographical distribution.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Cytogenetics. Spring. (4 q. hrs.)

The study of cells with particular emphasis on the structure, function and chemistry of chromosomes; the evolution and variation of karyotypes; and the structure and function of other cell organelles.

Prerequisite: Botany 350.

561. Ecological Methods. Spring. (4 q. hrs.)

Vegetation and soil analyses, microenvironmental measurements and physiological procedures used in ecological studies.

Prerequisite: Botany 461 or equivalent.

564. Radiation Biology. Winter. (4 q. hrs.)

A course dealing with the application of radioisotope methodology to the biological sciences. Work includes instruction in experimental techniques, instrumentation, and radiation safety.

Prerequisite: Botany 454 or the equivalent; physics recommended.

569. Advanced Taxonomy. Spring. (4 q. hrs.)

The study of recent developments in plant taxonomy with particular emphasis on paleobotany, biogeography, cytogenetics, chemical and ecological data to determine the evolutionary development of species.

Prerequisite: Botany 459 or permission of instructor.

575, 576, 577, 578. Advanced Botany. Any quarter. (4 q. hrs. for each course.)

Advanced work in some special field of botany. The student chooses the area in which he wishes to study, subject to the approval of his adviser.

Prerequisite: At least a minor in botany or its equivalent and the instructor's permission.

595. Thesis. (4 q. hrs.) Any quarter.

CHEMISTRY

UNDERGRADUATE COURSES

Chemistry 120, 121, and 122 is a year's sequence planned as a general cultural course. Chemistry 150, 151, and 152 is a year's sequence designed for the science oriented student including several of the pre-professional programs and pre-engineering. It is likewise suitable for others with a good background in high school mathematics and science. The 150, 151, 152 sequence is a prerequisite for most advanced chemistry courses. For those with inadequate background preparation, Chemistry 120 and 121 may be substituted for 150.

Except for the sequence Chemistry 120, 121, 151, and 152, only three 100-level chemistry courses can be accepted for credit toward graduation. The following are acceptable sequences: 120, 121, 122; 150, 151, 152; 120, 151, 152; 120, 151, 122; 150, 121, 122; 150, 151, 122; and 153, 154, 155.

Note: A breakage fee of \$3.00 is charged for laboratory courses in chemistry. The unused portion is returnable at the end of the course.

120, 121, 122. Elementary Chemistry. Each course every quarter.
(4 q. hrs. for each course.)

A study of the principles of chemistry, the more important non-metals and a few of the metals. Qualitative analysis and organic chemistry are introduced in the third term. The relationship of chemistry to contemporary problems is stressed.

Two classes and two 2-hour laboratory periods per week.

To be taken in sequence.

150, 151, 152. General Chemistry and Qualitative Analysis. 150, Summer 1969, Fall, Winter. 151, Fall, Winter, Spring. 152, Winter, Spring.
(4 q. hrs. for each course.)

The principles of chemistry are studied with emphasis on atomic structure, chemical bonding, thermochemistry, states of matter, kinetics, equilibrium, and electrochemistry. Qualitative analysis is a major part of the laboratory in 152.

150 and 151 have three classes and one 3-hour laboratory period per week. 152 has two classes and two 3-hour laboratory periods per week.

Prerequisite: One unit of high school chemistry and two and one-half units of high school mathematics. Students with less than a B- average in high school chemistry or less than a C+ average in mathematics are advised to take both Chemistry 120 and 121 in place of Chemistry 150. Either Chemistry 150 or Chemistry 120 and 121 are prerequisite to Chemistry 151.

To be taken in sequence.

153, 154, 155. Elementary and Organic Chemistry for Majors in Home Economics. 153, Fall, Winter. 154, Winter, Spring. 155, Spring.
(4 q. hrs. for each course.)

Basic principles of chemistry and some of the common classes of compounds are studied. Chemistry 155 introduces organic chemistry necessary for the understanding of carbohydrates, fats, proteins, textiles, dyes and plastics.

Two classes and two 2-hour laboratory periods per week.

Restricted to home economics majors. To be taken in sequence.

234. Elementary Quantitative Analysis. Fall and Spring. (4 q. hrs.)

The general principles of volumetric and gravimetric analysis; critical evaluation of analytical data; theory of neutralization and redox reactions; introduction to colorimetry; extensive treatment of problems illustrating each topic.

Two classes and two 3-hour laboratory periods per week.

Prerequisite: Chemistry 122 or 152; one course in college mathematics. Credit not granted to those with credit in Chemistry 330.

243, 244, 245 (343, 344, 345). Organic Chemistry. 243, 244, Every quarter; 245, Spring. (4 q. hrs. for each course.)

Studies of aliphatic and aromatic compounds with an introduction to the theories of organic chemistry and reaction mechanisms. Qualitative organic analysis is introduced in the laboratory portion of Chemistry 245.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence. Credit not granted to those with credit in Chemistry 283, 284, 285.

283, 284, 285. Organic Chemistry. Fall, Winter, Spring. (5 q. hrs. for each course.)

Studies of aliphatic and aromatic compounds, stressing the theories of organic chemistry and reaction mechanisms. Qualitative organic analysis is introduced in the laboratory portion of Chemistry 285.

Three classes and two 3-hour laboratory periods per week.

Prerequisite: Chemistry 152 or simultaneous registration therein.

To be taken in sequence. Credit is not granted to those with credit in Chemistry 243, 244, 245.

Required of chemistry majors. Open to others with permission of department head.

330. Quantitative Analysis. Fall. (5 q. hrs.)

A study of the principles and practice of gravimetric and volumetric analysis, chemical stoichiometry and the evaluation of analytical data.

Three classes and two 3-hour laboratory periods per week.

Prerequisite: Chemistry 152 and 243.

Required of chemistry majors. Open to others with permission of department head. Credit not granted to students who have received credit in Chemistry 234.

342. Practicum in Chemistry. Every quarter. (1 q. hr.)

This course is designed to afford the future chemistry teacher some practical experience in laboratory teaching and in servicing the laboratory. Twelve hours are to be spent assisting in an elementary chemistry laboratory and twelve hours in the storeroom during the quarter.

Prerequisite: Two years of college chemistry.

Required of Chemistry majors in the junior year of B.S. in Ed. curriculum. Should be completed prior to student teaching.

346 (356). Biochemistry. Spring. (4 q. hrs.)

The chemistry and metabolism of carbohydrates, lipids, proteins, and nucleic acids; introduction to the actions of enzymes, vitamins, hormones, co-enzymes; principles of metabolic control.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 243 or 155 (Chemistry 234 is recommended).

400, 401. Undergraduate Seminar. Fall, Winter, and Spring.
(1 q. hr. for each course.)

A thorough literature search of a recent development in chemistry and the presentation of a talk based on this search. One meeting per week. For chemistry majors in their junior and senior years.

420, 421. Independent Study. Every quarter by arrangement. (4 q. hrs. for each course.)

Laboratory problems selected in terms of the student's training and interest in some field of chemistry. Laboratory work, use of chemical literature and conferences with the instructor. Results are to be presented in the form of a written report, one copy of which is to be filed with the department office.

Prerequisite: Permission of instructor and department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461 (361). Modern Inorganic Chemistry. Winter. (4 q. hrs.)

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. The laboratory work consists of the preparation of some representative compounds.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 491, 492, 493 or simultaneous registration therein.

470. Instrumental Methods in Chemistry. Fall and Spring. (4 q. hrs.)

The principles involved in using various instruments and the techniques

required for making chemical measurements. Study includes such subjects as colorimetry, chromatography, spectrophotometry, polarography, etc.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 243 and 330.

481. Qualitative Organic Analysis. Summer 1969. (4 q. hrs.)

Eight to ten organic compounds and one or two bimolecular mixtures are identified by chemical and physical tests. Class work centers around interrelationships of organic families and how these are used to identify a compound.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 245 or simultaneous registration therein.

485. Chemistry of Natural Products. Spring. (4 q. hrs.)

A study of the principles and techniques employed in research in natural product chemistry and biologically related field, including the isolation, purification, identification and synthesis of physiologically active natural products.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 234 or 330; 245 or 244 with permission of the instructor and department head.

491, 492, 493. Physical Chemistry. Fall, Winter, Spring. (4 q. hrs. for each course.)

A study of the principles governing chemical change. Included are: thermodynamics; equilibria; kinetic theory; the gaseous, liquid and solid states; solutions; atomic and molecular structure; electrochemistry, quantum theory and chemical kinetics.

491 has four classes only; 492 and 493 have three lectures and one 3-hour laboratory per week.

Prerequisite: Chemistry 243, 330 or simultaneous registration therein or 234. Mathematics 235, 236 or simultaneous registration therein. To be taken in sequence.

494. Nuclear Chemistry. Summer 1969 and Fall. (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Five terms of chemistry including 234 and/or 461, or permission of the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Seminar. (Omitted 1969-70.) (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 330 and 244, and permission of the head of the department.

501. History of Chemistry. (Omitted 1969-70.) (4 q. hrs.)

The sources of chemical information including abstracts, journals, texts and reference works are consulted in the study of the historical development of chemistry.

512. Theoretical Inorganic Chemistry I. Spring. (4 q. hrs.)

A study of topics selected to provide a firm background in the theory of inorganic chemistry. Included are periodic trends, modern theories of chemical bonding, structure and bonding in ionic crystals, thermodynamics of inorganic chemistry, and ligand-field theory of coordination compounds.

Prerequisite: Chemistry 461, 493.

513. Theoretical Inorganic Chemistry II. Summer 1969. (4 q. hrs.)

Additional topics of inorganic chemical phenomena not covered in Chemistry 512. Study includes such subjects as acid-base theories, non-aqueous solvents, oxidation-reduction phenomena, and inorganic reaction mechanisms.

Prerequisite: Chemistry 461, 493.

520. Chemical Thermodynamics. Summer 1969 and Winter. (4 q. hrs.)

A study of the laws governing the passage of energy from one chemical system to another, the transformation of energy from one form to another, and the utilization of energy for useful work; together with the application of these laws to the change of matter from one molecular species to another.

Prerequisite: Chemistry 493.

523. Quantum Chemistry. Spring. (4 q. hrs.)

A study of the structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized.

Prerequisite: Chemistry 493.

530. Spectrometric Chemical Analysis. Summer 1969 and Fall. (4 q. hrs.)

A study of the theory and quantum principles of IR, UV, and NMR spectroscopy, including spectrometric identification of chemical compounds with emphasis on organic structure.

Prerequisite: Chemistry 244, 493; Chemistry 470 is desirable.

540 (480). Organic Mechanisms. Fall. (4 q. hrs.)

A study of the mechanisms of reactions in organic chemistry.

Prerequisite: Chemistry 234, 244.

543. Special Topics in Organic Chemistry. Winter. (4 q. hrs.)

A study of topics not ordinarily covered in the basic introductory organic chemistry courses.

Prerequisite: Chemistry 245; Chemistry 493 strongly recommended.

546. Biochemistry. Winter. (4 q. hrs.)

A study of the chemistry of biological materials, their isolation from tissues and the characterization of their structures and functions. Emphasis is placed on the metabolism of carbohydrates, lipids, proteins, and nucleic acids.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 330 (or 234), 244 (or 284) and 493, or permission of the head of the department.

556 (450, 451.) Research in Chemistry. Every quarter by arrangement. (May be taken one, two, or three times for 4, 8, or 12 q. hrs.)

A problem is selected in the area of the student's major interest after consultation with the department head and the instructor. The methods used in solving scientific problems are developed through the use of literature, laboratory and consultations.

Prerequisite: Permission of the head of the department.

595. Thesis. (4 q. hrs.)

ECONOMICS

UNDERGRADUATE COURSES

254. Principles of Economics. Every quarter. (4 q. hrs.)

The nature of economics, the American economic system, business organization, personal finance, labor-management relations, government finance, national income analysis.

Prerequisite: Sophomore standing.

255. Principles of Economics (continued.) Every quarter. (4 q. hrs.)

Business cycles, money and prices, banking and monetary policy, fiscal policy, supply and demand analysis.

Prerequisite: Economics 254.

256. Principles of Economics (continued.) Every quarter. (4 q. hrs.)

Theory of production and factoral distribution, international economics, problems of economic growth and price stability.

Prerequisite: Economics 255.

320. International Economics. Fall and Summer. (4 q. hrs.)

Principles of foreign trade and lending, the nature of international payments, tariffs and quotas, commercial policies currently being followed by the major countries participating in the world economy.

Prerequisite: Economics 256 or permission of the instructor.

356. Government and Business. Fall. (4 q. hrs.)

The market structures in which business operates; public policies for regulation and control of those markets.

Prerequisite: Economics 256 or permission of the instructor.

357. Labor Economics. Fall. (4 q. hrs.)

An intensive study of labor as a factor in the economic system; history of the labor movement; technique and objective of labor organization; fundamental issues in labor-management disputes; labor legislation.

Prerequisite: Economics 256 or permission of the instructor.

358. American Economic Development. Spring. (4 q. hrs.)

A study of the economic development of the United States, with special emphasis upon our basic economic organizations, such as the business enterprise, the labor union, and the economic functions of government.

Prerequisite: Economics 256.

399. Summer Study in Ireland. Summer. (9 q. hrs.)

Independent research in economics. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Comparative Economic Systems.** Winter. (4 q. hrs.)

A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism.

Prerequisite: Economics 256 or permission of the instructor.

454. History of Economic Thought. Winter. (4 q. hrs.)

The ancient world; scholasticism, mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes.

Prerequisite: Economics 256.

460. Intermediate Economic Analysis. Fall. (4 q. hrs.)

A study of commodity and factor price theory.

Prerequisite: Economics 256.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

462. Economic Stability and Growth. Winter. (4 q. hrs.)

An analysis of factors affecting the level of national economic activity, its fluctuation, and rate of increase.

Prerequisite: Economics 256.

463. Mathematical Economics. Winter. (4 q. hrs.)

The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework.

Prerequisites: Mathematics 135 and Economics 460, or permission of the instructor.

465. Economics of Underdeveloped Areas. Winter. (4 q. hrs.)

An intensive study of the economic structures of the underdeveloped areas of the world. An analysis of the causes of their continuing low levels of output will be followed by an examination of the policy alternatives open to them for the development of their economies.

Prerequisite: Economics 256 or permission of the instructor.

467. International Economic Problems. Spring. (4 q. hrs.)

A study of current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism; and related issues.

Prerequisite: Economics 320 or permission of the instructor.

468. Economic Planning. Spring. (4 q. hrs.)

A study of the deliberate and systematic development planning by public authorities in market economies as well as command economies.

Prerequisite: Economics 465 and/or permission of the instructor.

470. Business Cycles. Spring. (4 q. hrs.)

An analysis of fluctuations in economic activity, including characteristics of cycles, their explanation in terms of income and employment theory, development of leading business cycle theories, and efforts to forecast and control business cycles.

Prerequisite: Economics 256.

475. Government and Labor. Spring. (4 q. hrs.)

Public policy with respect to labor problems and industrial relations. The role of the legislative, judicial, and executive branches of state and federal governments relating to labor relations.

Prerequisite: Economics 357 or permission of the instructor.

477. Economics of Collective Bargaining. Winter. (4 q. hrs.)

Analysis and study of the role and nature of collective bargaining. Examination of economics and social impact and implications of collective bargaining, alternative approaches to conflict resolutions, and evaluation of proposals for improvement.

Prerequisite: Economics 357 or permission of the instructor.

480. Money and Banking. Winter and Summer. (4 q. hrs.)

An intensive study of money and banking and their importance in our economy; government monetary and banking policy and its significance to economic well-being.

Prerequisite: Economics 254, 255, 256.

485. Public Finance. Fall. (4 q. hrs.)

A study of taxation, government spending, public debt and their importance to economic welfare.

Prerequisite: Economics 254, 255, 256 or permission of the instructor.

490. Latin American Economic Development. Spring. (4 q. hrs.)

A survey of the economic conditions and problems in Latin America, both as a whole, and in specific countries.

Prerequisites: Economics 254, 255, 256 or permission of the instructor.

495. Independent Study. Every quarter. (4 q. hrs.)

Provides opportunity for the student to do independent study in the field

of economics. Designed for the individual needs of the student at either the undergraduate or graduate level.

Prerequisite: Economics 254, 255, 256.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Seminar in International Economics. Fall. (4 q. hrs.)

A study of the pure theory of international trade and finance.

Prerequisite: Economics 320 and/or permission of the instructor.

550. The Soviet Economy. Spring and Summer. (4 q. hrs.)

Emphasis will be given to the current and historical economic factors which have given rise to the phenomenal development of the Soviet economy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Seminar in Public Control of Industry. Winter. (4 q. hrs.)

Discussions and individual research in selected problems of economic policy arising from the inter-relations of government and business with special attention to be given to problems of maintaining competitive enterprise.

Prerequisite: Economics 356 and/or permission of the instructor.

557. Problems in Labor Economics. Fall. (4 q. hrs.)

A critical economic analysis of contemporary and English and American wage theory, of hours of work and unemployment, and of issues in collective bargaining. The various aspects of public policy affecting labor will be emphasized.

Prerequisite: Economics 357 and/or permission of the instructor.

558. The Economics of Manpower Resources. (Omitted 1969-70.)
(4 q. hrs.)

A study of the population as a resource base, including measurement and description of the labor force and its characteristics. Attention will be focused on dynamics of the labor force, problems of utilization of labor, and issues of national manpower policy.

Prerequisite: Economics 357 and/or permission of the instructor.

560. Advanced Economic Theory: Microeconomics. Spring. (4 q. hrs.)

A development of theories of value and distribution. Detailed analysis of the reactions of consuming units (households) and producing units (firms). Determination through the market of prices, outputs, incomes, and resource allocation.

Prerequisite: Economics 460 and/or permission of the instructor.

562. Advanced Economic Analysis: Macroeconomic Theory.

(Omitted 1969-70.) (4 q. hrs.)

An in depth study of national income analysis: incorporating pre-Keynesian, Keynesian, and post-Keynesian economic theory.

Prerequisite: Economics 462 or proficiency in macroeconomic analysis.

564. Seminar in Recent History of Economic Thought. Summer, Spring.
(4 q. hrs.)

A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1930, such as: Keynes, Robertson, Mitchell, Schumpeter, Myrdal, Galbraith, Commons, Hicks, Liberman, and J. Robinson.

Prerequisite: Economics 454 and/or permission of the instructor.

565. Seminar in Economic Development. Summer, Spring. (4 q. hrs.)

A theoretical, historical and statistical treatment of economic development.

Prerequisite: Economics 465 and/or permission of the instructor.

580. Seminar in Monetary Theory. Fall. (4 q. hrs.)

A study of topics relating to the supply of and the demand for money and the functioning of monetary controls relative to national economic goals.

Prerequisite: Economics 480 and/or permission of the instructor.

581. Seminar in Financial Institutions. Summer, Winter. (4 q. hrs.)

A study of the functioning of major private and public financial institutions.

Prerequisite: Economics 480 and/or permission of the instructor.

585. Seminar in Public Finance. Winter. (4 q. hrs.)

This course is designed to present a number of specific areas of public finance in such fields as budgets, fiscal policy, and public debt at the federal, state, and local level. The emphasis will be on fiscal theory and intergovernmental fiscal relations.

Prerequisite: Economics 485 and/or permission of the instructor.

595. Thesis. (4 q. hrs.)

ENGLISH

Note: A student who enters the University with a deficiency in the basic skills in English—reading, writing, spelling, elements of grammar and good usage—may be required to take work in remedial English in addition to the required freshman composition courses.

UNDERGRADUATE COURSES

120. Composition. Every quarter. (4 q. hrs.)

A course in essay writing, with frequent writing designed to develop facility in matters of sentence structure, paragraph development, and organization.

126. Grammar. Fall, Winter and Spring. (4 q. hrs.)

A study of the English sentence, with some attention to the parts of speech. This is primarily a course for those preparing to teach in the upper grades or in junior or senior high school English, but is open to any student.

130. The Types of Literature. Every quarter. (4 q. hrs.)

An introduction to the major genres (poetry, fiction, drama). The course is designed to improve the student's ability to read imaginative literature appreciatively, and, through writing essays based on his study, to give the student practice in employing the critical vocabulary the course seeks to foster.

Prerequisite: English 120.

Note: English 130 does not count toward fulfilling the humanities general requirement for any degree.

201. Advanced Reading and Writing. Every quarter. (4 q. hrs.)

Further study of rhetoric and literature. Longer units of composition in which problems of organization, coherence, and unity are studied. One research paper required in addition to short themes.

Prerequisite: English 130 and sophomore standing.

215. Mythology. Fall. (4 q. hrs.)

A study of the myths, chiefly Greek and Roman, most often retold, interpreted, or alluded to by the writers of Western Europe and America.

226. The Structure of the English Language: Phonology and Orthography. Fall, Winter and Spring. (4 q. hrs.)

Phonetics, phonemics, supra segmentals of stress and pitch; dialectology, including culturally deprived, British and American "correctness," and pronunciation dictionaries. History of Roman alphabet, of continental and English orthography; graphemics. Applied linguistic theories of reading.

227. The Structure of the English Language: Morphology and Syntax. Winter. (4 q. hrs.)

A study of morphemics, morphology, basic structures of syntax. Traditional vocabulary (conjugation, etc.). Sound and form change by contact (sandhi, assimilation, etc.). Vocabulary formation (borrowing, derivation, etc.). "Correctness" in agreement, etc.; dialectology and "grammars" in English.

Prerequisite: English 226.

228. The Structure of English: History of the Sound System, the Word System, the Syntactical Systems. Spring. (4 q. hrs.)

English sounds and dialects, words, sentences, vocabulary formation in 800, 1400, 1600, and 1960 A.D. General linguistic change and major events: coming of Indo-Europeans, American settlement, etc. American and world dialects. History of dictionary making; dictionaries today.

Prerequisite: English 227.

245. A Survey of English Literature I. Fall and Winter. (4 q. hrs.)

English prose and poetry (including drama) from *Beowulf* to Bunyan.

246. A Survey of English Literature II. Fall, Winter, and Spring. (4 q. hrs.)
English prose and poetry (including drama) from Dryden to DeQuincey.

247. A Survey of English Literature III. Winter and Spring. (4 q. hrs.)
English prose and poetry (including drama) from Macaulay to Dylan Thomas.

250. American Literature I. Fall, Winter, and Spring. (4 q. hrs.)
A survey of American Literature from Colonial times through the Transcendental Movement, stressing trends and major writers. Special emphasis is given to works of Edward Taylor, Hawthorne, Poe, Emerson, and Thoreau.

251. American Literature II. Fall, Winter, and Spring. (4 q. hrs.)
A survey of American literature from the close of the Transcendental Movement to 1900, stressing trends and major writers. Special emphasis given to works of Melville, Whitman, Dickinson, Mark Twain, and James.

252. American Literature III. Fall, Winter, and Spring. (4 q. hrs.)
A survey of American literature from 1900 to the present, stressing trends and major writers. Special emphasis given to works of Robinson, Frost, Eliot, Faulkner, and Hemingway.

260. English Novel to 1850. Fall. (4 q. hrs.)
Fiction of the first half of the nineteenth century with emphasis upon the novels of Austen, Thackeray, Dickens, Trollope, Scott, the Brontes.

261. English Novel from 1850 to 1900. Winter. (4 q. hrs.)
Fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, Stevenson, Willkie Collins, and others.

262. The American Novel to 1900. Winter. (4 q. hrs.)
A study of American novels before the twentieth century, with emphasis on the works of Hawthorne, Melville, Mark Twain, and James.

263. The Twentieth Century Novel: English and American. Spring. (4 q. hrs.)
An analysis of selected novels by such major figures as Joyce, Dreiser, Fitzgerald, Hemingway, Steinbeck, Lawrence. Emphasis on types and trends in the modern novel.

270. Modern Drama. Spring. (4 q. hrs.)
The purpose of this course is to familiarize the student with what is best in modern drama.

275. Literature of the Old Testament. Spring. (4 q. hrs.)
An objective study of types of literature of the Old Testament—simple narratives, biography, history, law, short story, drama, prophecy, poetry, and wisdom literature. Some attention is paid to historical backgrounds.

299. Prosody. Winter. (4 q. hrs.)
An investigation of the nature and function of poetic rhythm, the history

of poetic rhythm and prosodical theory, the use of linguistic structure for aesthetic, rhythmic effects.

310. Studies in Major American Poets. Fall. (4 q. hrs.)

A study in depth of various major American poets, such as Taylor, Whitman, Dickinson Robinson, Frost. Only one or two poets will be studied during any given quarter, and the poet or poets studied may vary from quarter to quarter.

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

315. Literary Criticism, Aristotle to Johnson. Fall. (4 q. hrs.)

Selections from the critical writings of Aristotle, Plato, Horace, Longinus, Sidney, Daniel, Jonson, Corneille, Milton, Dryden, Pope, Johnson.

316. Literary Criticism of the Nineteenth Century. Winter. (4 q. hrs.)

Selections from the critical writings of Hazlitt, Wordsworth, Coleridge, Keats, Shelley, Poe, Arnold, Pater, and Wilde.

317. Modern Literary Criticism. Spring. (4 q. hrs.)

Selections from the critical writings of Henry James, T. S. Eliot, Ransom, Mencken, Bergson, Richards, Croce, Empson, Reed, and Rilke.

322. Literature in the Grades. Fall, Winter and Spring. (4 q. hrs.)

Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suitable for children.

Enrollment restricted to students in the elementary curriculum.

325. Greek Drama. Spring. (4 q. hrs.)

Origin and development of classical drama. Aeschylus, Sophocles, Euripides, with a study of Greek life and thought, and their contribution to our culture.

333. Colonial American Literature. Fall, Spring. (4 q. hrs.)

A study of American literature from its beginnings through the Revolutionary period. Essays, biographies, poetry, and fiction will be studied both for their intrinsic value and for their importance as a background for subsequent literary expression in America.

336. Shakespeare. Fall. (4 q. hrs.)

A study mostly of Shakespeare's earlier plays, including *Richard II*, *Richard III*, *Romeo and Juliet*, *Julius Caesar*, *Midsummer Night's Dream*, *Merchant of Venice*, *Taming of the Shrew*, *Much Ado About Nothing*. Of the later plays, *Othello* is included.

337. Shakespeare. Winter. (4 q. hrs.)

A study of *I Henry IV*, *II Henry IV*, *Henry V*, *As You Like It*, *Measure for Measure*, *Hamlet*, *Macbeth*, and *The Winter's Tale*.

338. Shakespeare. Spring. (4 q. hrs.)

A study of *Twelfth Night*, *Troilus and Cressida*, *King Lear*, *Antony and Cleopatra*, *Coriolanus*, *Cymbeline*, *The Tempest*.

340. Methods of Teaching English in the High School. Fall, Winter and Spring. (4 q. hrs.)

Important topics connected with English in the high school are covered as fully as time permits.

Prerequisite: Admission to teacher education and junior standing.

355. Advanced Rhetoric. Winter. (4 q. hrs.)

Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 120 and 201.

Prerequisite: English 201 or its equivalent.

356. Creative Writing. Fall, Spring. (4 q. hrs.)

Practice in finding, organizing and presenting materials for poetry, the familiar essay, the biographical sketch, and the short story. Emphasis is placed on materials drawn from the writer's experience and environment.

360. Studies in Major American Novelists. Winter. (4 q. hrs.)

A study in depth of various major American novelists, such as Hawthorne, Melville, Mark Twain, James, Faulkner, Hemingway. Only one or two novelists will be studied during any given quarter, and the novelist or novelists studied may vary from quarter to quarter.

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

361. World Literature: Ancient and Medieval. Fall. (4 q. hrs.)

Reading in translation of representative masterpieces of the ancient world and of the middle ages.

English 361 is not a prerequisite for English 362 or 363, but it is recommended that the courses be taken in sequence.

362. World Literature: Renaissance to 1850. Winter. (4 q. hrs.)

Emphasis on generally recognized masters, Rabelais, Montaigne, Shakespeare, Goethe, Moliere, Racine, Cervantes, and others.

363. World Literature: Since 1850. Spring. (4 q. hrs.)

Readings in the masterpieces of realism, naturalism, symbolism; Balzac, Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others.

364. Introduction to the General Nature of Language and of English. Spring. (4 q. hrs.)

An over-view of theories of the nature of language; of the language and writing systems of the world and their growing conflicts; modern American English and its cultural setting. Concentration topics, e.g., psycho-linguistics, chosen by instructor.

370. Twentieth Century British Literature. Winter. (4 q. hrs.)

Representative writings in twentieth century British literature (exclusive of the novel) with special attention to Conrad, Yeats, Joyce, and Eliot.

379. Nineteenth Century American Poetry. Spring. (4 q. hrs.)

A study of major trends and significant figures in nineteenth century American poetry. Various genres, such as the lyric and the epic, are considered, and attention is given to the relationship between poetic theory and practice.

380. Theory and Practice of Modern Drama I. Fall. (4 q. hrs.)

The best of Ibsen, Shaw, Chekhov, and Strindberg. A course taught co-operatively by the Department of English and the Department of Theatre Arts. The aim of the course is to give the student experience in intellectual analysis and interpretation of significant dramatic works, and also experience in acting and directing. Acting is optional.

381. Theory and Practice of Modern Drama II. Winter. (4 q. hrs.)

The best of O'Neill, Tennessee Williams, Arthur Miller, and Thornton Wilder.

382. Theory and Practice of Modern Drama III. Spring. (4 q. hrs.)

The best of the "Absurdist"—Beckett, Ionesco, Albee, Pinter, Genet.

399. Summer Study in Ireland. Summer. (9 q. hrs.)

Independent research in English. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Sixteenth and Seventeenth Century Prose.** (Omitted 1969-70.) (4 q. hrs.)

Development of prose from the earliest experiments to later times, including such authors as Lyly, Sidney, Bacon, Bunyan, and Milton together with the times that influenced and made it.

454. The Transcendental Movement. Fall. (4 q. hrs.)

A study of the New England Transcendental movement. Major emphasis on the writings of Emerson and Thoreau.

455. The Age of Swift. Fall. (4 q. hrs.)

A study of the prose and poetry of the neo-classical period centering around Jonathan Swift.

456. The Age of Johnson. Winter. (4 q. hrs.)

A study of major eighteenth century authors centering around Samuel Johnson.

457. Nineteenth Century English Prose. (Omitted 1969-70.) (4 q. hrs.)

Major nineteenth century English prose writing (exclusive of fiction) of Carlyle, Macaulay, Newman, Lamb, Hazlitt, Mill, Froude, Thackeray, Ruskin, Arnold, Huxley, Coleridge, Wordsworth, Morris, Pater, Stevenson.

459. Methods of Teaching Children's Literature. Winter. (4 q. hrs.)

A course for elementary and English majors, designed to increase their

knowledge of children's literature and to suggest methods for teaching literature in grades one through six.

465. Middle English Literature. Fall. (4 q. hrs.)

A study of the non-Chaucerian literature of the Middle Ages, including a brief initial survey of Old English literature; stress on major types: religious prose and poetry, social commentary, lyric poetry, the romance, drama.

470. English Poetry. Fall. (4 q. hrs.)

English poetry from 1550 to 1700, exclusive of Milton.

471. Poetry of the Romantic Period. Winter. (4 q. hrs.)

Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats.

472. Poetry of the Victorian Period. Spring. (4 q. hrs.)

Tennyson and Browning, etc.

475. Milton. Spring. (4 q. hrs.)

A study of the life, prose, and poetry of John Milton, and his relationship to the literary trends of his century.

480. Chaucer. Winter. (4 q. hrs.)

Canterbury Tales; the London dialect out of which modern English grew; the life of the times.

481. Chaucer. Spring. (4 q. hrs.)

A study of *Troilus* and *Criseyde* and such other works as *The House of Fame*, *The Parliament of Fowls* and *The Legend of Good Women*; a study of the London dialect out of which modern English grew; and ideas of the time such as courtly love, predestination and free will.

490. Elizabethan Drama. (Omitted 1969-70.) (4 q. hrs.)

A survey of the development of the English drama of the Renaissance, based on the works of the major playwrights of the period, including selected plays of Shakespeare.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Literary Criticism. (Omitted 1969-70.) (4 q. hrs.)

An extensive study of the basic principles of evaluating the standard literary forms—epic, dramatic, lyrical, and prose narrative.

510. Studies in Medieval Literature. (Omitted 1969-70.) (4 q. hrs.)

A study in depth of representative non-Chaucerian literature of the English Middle Ages. The course may concern itself with genres—the drama,

the romance, the ballad—or with figures: the Gawain poet, William Langland, John Gower, John Lydgate, Robert Henryson.

520. Studies in Renaissance Poetry. Winter. (4 q. hrs.)

A study of a single major poet—such as Spenser or Sidney—or a group of poets, in relation to the dominant ideals and attitudes of the Renaissance.

525. Studies in Jacobean and Caroline Drama. (Omitted 1969-70.)
(4 q. hrs.)

Focus upon the works of major British dramatists (excluding Shakespeare) from 1603 to the closing of the theaters in 1642.

526. Studies in Restoration and Eighteenth Century Drama. Fall. (4 q. hrs.)

Focus upon the works of major British dramatists from Dryden to Sheridan.

535. English Fiction, from Jane Austen to Thomas Hardy. Spring. (4 q. hrs.)

This course surveys the historical development of the novel in England from Jane Austen to Thomas Hardy, but the emphasis will be on one or two different novelists each quarter.

540. Studies in American Poetry. Fall. (4 q. hrs.)

A course devoted to the study of some movement or genre in American poetry; for example, nineteenth century poetic theory and practice, trends in American poetry from the Puritans to the present, lyric poetry in the American tradition, or narrative poetry in America.

541. Studies in American Prose. Spring. (4 q. hrs.)

A course devoted to the study of some movement in American prose, such as the romance and the novel in nineteenth century fiction; the short story; the rise of realism; the nineteenth century novel; theory and practice; the novelle; biography, autobiography, and the essay; the local color movement. Only one movement to be treated in any given term, and the movement and authors studied may change from term to term.

545. Descriptive Linguistics. Winter. (4 q. hrs.)

A survey of descriptive linguistics from the 1930's to the present, with some training in the various disciplines arising therefrom; e.g., structural, transformational, and other grammars; techniques in teaching English as a foreign language; techniques in related fields.

Prerequisite: Permission of the instructor.

550. Comparative Literature. Fall. (4 q. hrs.)

Literature, chiefly of the Western World 1650 to 1900. It has a double aim: first it proposes to offer for the enjoyment and appreciation of the student some of the best literature of the period; second, it will call to the student's attention the ideas and movements of the time.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Old English. (Omitted 1969-70.) (4 q. hrs.)

Old English grammar and selected readings from the literature.

Prerequisite: Permission of the instructor.

561. Beowulf. (Omitted 1969-70.) (4 q. hrs.)

A study of the Old English classic in the original language with emphasis on such aspects as the social, legendary, and historical backgrounds of the poem; its structure and texture; and the various critical problems involved in its study.

Prerequisite: English 560 or the permission of the instructor.

565. Studies in Chaucer. (Omitted 1969-70.) (4 q. hrs.)

Focus upon selected works of Chaucer and, possibly, of his contemporaries.

Prerequisite: English 480 or 481 or the equivalent.

575. Studies in Shakespeare. Spring. (4 q. hrs.)

The content of the course will vary from year to year in order to provide opportunity for investigation of intellectual patterns and socio-political aspects of the works in addition to their distinctively literary values.

Prerequisite: English 326 or 327 or their equivalent, or by permission of the instructor.

577. Studies in Seventeenth Century Prose and Poetry. (Omitted 1969-70.) (4 q. hrs.)

Studies in single or related authors from Donne to Dryden, excluding Milton and the drama.

579. Studies in Eighteenth Century Prose and Poetry. Fall. (4 q. hrs.)

Focus upon Pope and the Neo-classical ideal; the Johnson circle; the Scottish nature poets.

582. Studies in Romantic Poetry. Winter. (4 q. hrs.)

A study of one poet (Burns, Wordsworth, Coleridge, Byron, Shelley, or Keats). The writings and life of the poet will be studied against the background of Romanticism.

585. Studies in Later Nineteenth Century Prose and Poetry. (Omitted 1969-70.) (4 q. hrs.)

A detailed study of some of the basic and most typical thematic preoccupation of the nineteenth century as revealed in its literature. Although primary emphasis will be on English literature, some study of relevant American and European literature will be included. Since emphasis is upon themes rather than literary genres, the course will include studies of particular poems, novels, and non-fictional prose.

590. Colonial American Literature. Winter. (4 q. hrs.)

A course devoted to pre-revolutionary American literature, with special attention to the writings of the seventeenth century New England Puritans.

592. Studies in Twentieth Century Fiction. (Omitted 1969-70.) (4 q. hrs.)

An intensive study of the major figures of the period in England and America: Conrad, Lawrence, and Joyce; Hemingway and Faulkner. Focus will be on one or two writers, varying from quarter to quarter.

594. Studies in Twentieth Century Poetry. Spring. (4 q. hrs.)

Focus on key figures, e.g., Eliot, Yeats, Robinson, Frost, together with individual critical analyses of minor poets.

595. Thesis. (4 q. hrs.)**FOREIGN LANGUAGES**

Intermediate and upper division modern language courses are conducted in the language.

Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I	II	III
Number of high school units in the language.	Course in (or beyond) which the student may enroll for college credit.	Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
1 year	The student will take a placement examination given by the Foreign Language Department which will determine the course which he may enter for credit.	
2 years	Latin 122	Latin 220
	French 132	French 230
	German 132	German 233
	Russian 142	Russian 250
	Spanish 132	Spanish 230
3 years	Latin 220	Latin 221
	French 230	French 231
	German 233	German 234
	Russian 250	Russian 251
	Spanish 230	Spanish 231
4 years	Latin 222	a course numbered above 300
	French 232	
	German 235	
	Russian 252	
	Spanish 232	

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

The following courses are approved to apply toward the literature portion of the humanities requirement:

French 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512

German 353, 355, 362, 363, 411, 412, 453, 454, 511, 512

Russian 360, 361, 363

Spanish 321, 322, 323, 325, 326, 411, 456, 457, 458, 510, 511, 512

Note: A student wishing to count foreign language as a humanities requirement must complete the third course of the first year's sequence in order to use the credit toward meeting that requirement. A student may take the first or second course of the three-course sequence in the first year of a foreign language and receive elective credit toward graduation. This applies to:

French 130, 131, 132

German 130, 131, 132

Latin 120, 121, 122

Russian 140, 141, 142

Spanish 130, 131, 132

FRENCH

UNDERGRADUATE COURSES

130, 131, 132. Elementary French. Fall, Winter and Spring. (4 q. hrs. for each course.)

Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.

230, 231, 232. Second Year French. Fall, Winter and Spring. (4 q. hrs. for each course.)

Review of grammar; exercises in composition; conversation; readings.

Prerequisite: Two years of high-school French or one year of college French.

330. Applied Linguistics. Spring. (4 q. hrs.)

Application of principles of linguistic analysis to modern French. Systematic drills are used to build the student's knowledge of the structure of French and to eliminate errors caused by the patterns of the student's native English.

Prerequisite: Two years of college French or permission of the department.

331. French Grammar and Composition. Fall. (4 q. hrs.)

Review and consolidation of principles of grammar; their application in writing, language drills, translations, compositions.

Prerequisite: Two years of college French or permission of the department.

332. Aspects of French Civilization. Winter. (4 q. hrs.)

A study of some of the outstanding moments and figures in the history of French culture and civilization.

Prerequisite: Two years of college French or permission of the department.

340. Methods of Teaching French. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching French. Spring. (2 q. hrs.)

A course designed for French minors.

Prerequisite: Admission to teacher education.

350. Survey of French Literature from the Middle Ages to the 17th Century. Fall. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

351. Survey of French Literature of the 17th Century. Winter. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

352. Survey of French Literature of the 18th and 19th Centuries. Spring. (4 q. hrs.)

Prerequisite: Two years of college French or permission of the department.

410. Introduction to the French Novel I. Fall. (4 q. hrs.)

A study of selected novels of Mme. de LaFayette, Prévost, Constant, George Sand.

Prerequisite: French 350, 351, 352 or permission of the department.

411. Introduction to the French Novel II. Winter. (4 q. hrs.)

A study of selected novels of Victor Hugo, Balzac, Stendhal, Flaubert.

Prerequisite: French 350, 351, 352 or permission of the department.

412. Introduction to the French Novel III. Spring. (4 q. hrs.)

A study of selected novels of Zola, Proust, Gide, Camus.

Prerequisite: French 350, 351, 352 or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**456. French Drama of the 17th Century.** (Omitted 1969-70.) (4 q. hrs.)**457. French Drama of the 18th and 19th Centuries.** (Omitted 1969-70.) (4 q. hrs.)**458. French Poetry.** (Omitted 1969-70.) (4 q. hrs.)**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. French Novel I: Before Balzac. (Omitted 1969-70.) (4 q. hrs.)

A study of selected novels of Mme. de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

511 (454). French Novel II: Balzac to Proust. (Omitted 1969-70.) (4 q. hrs.)

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

512. French Novel III: Proust to the Present. (Omitted 1969-70.) (4 q. hrs.)

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

515. Advanced Phonetics and Diction. Summer 1969. (4 q. hrs.)

Theory and practice.

516. Syntax and Stylistics. Fall. (4 q. hrs.)

A study of French syntax and stylistics; intensive practice in writing.

517. Contemporary French Civilization. Summer 1970. (4 q. hrs.)

A study of the contemporary scene in France.

560. Classroom and Laboratory Techniques for Teaching French. Spring. (4 q. hrs.)

Particularly for students preparing for junior college or college teaching; adaptable to experienced teachers at other levels.

565. French Literature of the Renaissance. Fall. (4 q. hrs.)

Rabelais, DuBellay and the doctrine of the Pleiade, Ronsard and Montaigne.

567. French Classicism I. Summer 1969. (4 q. hrs.)

Representative authors of the first half of the 17th Century.

568. French Classicism II. Summer 1969. (4 q. hrs.)

Representative authors of the second half of the 17th Century.

575. The Age of Enlightenment. Winter. (4 q. hrs.)

Chosen authors of the 18th Century.

578. French Realism and Naturalism. Winter. (4 q. hrs.)

Representative works of the French realists and naturalists of the 19th Century.

580. Contemporary French Literature. Spring. (4 q. hrs.)

Contemporary authors such as Sartre, Anouilh, Beckett, and Robbe-Grillet.

585. Seminar in French Literature. Summer 1970. (4 q. hrs.)

Work and discussion of various topics chosen according to students' needs.

595. Thesis. (4 q. hrs.)**GERMAN****UNDERGRADUATE COURSES****130, 131, 132. Elementary German.** Fall, Winter and Spring. (4 q. hrs. for each course.)

Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

- 233, 234, 235. Second Year German.** Fall, Winter and Spring. (4 q. hrs. for each course.)

Rapid review of grammar; practice and vocabulary-building exercises in conversation, and regular exercises in composition; intensive reading of selected short stories and novels.

Prerequisite: German 132 or two years of high school German.

- 250. Scientific German.** Spring. (4 q. hrs.)

Extensive readings in and development of the terminology of the physical sciences, the biological sciences and the social sciences.

Prerequisite: German 234 or four years of high school German.

- 340. Methods of Teaching German.** Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

- 341. Methods of Teaching German.** Spring. (2 q. hrs.)

A course designed for German minors.

Prerequisite: Admission to teacher education.

- 353. Masterpieces of German Literature.** Fall. (4 q. hrs.)

Introduction to German Literature, its themes, forms, and ideals.

Prerequisite: German 235 or permission of the department.

- 354. Conversation and Writing.** Winter. (4 q. hrs.)

Training in writing German, diction and pronunciation.

Prerequisite: German 235 or permission of the department.

- 355. Twentieth Century German Literature.** (Omitted 1969-70.) (4 q. hrs.)

Introduction to trends of modern civilization as reflected in contemporary German Literature: Hofmannsthal, Rilke, Trakl, Hauptmann.

Prerequisite: German 235 or permission of the department.

- 361. Applied Linguistics.** Spring. (4 q. hrs.)

Application of the findings of descriptive linguistics to the study and the teaching of German; the results of linguistic analysis and their practical significance both to the student of that language and to the teacher.

Prerequisite: German 235 or permission of the department.

- 362. Schiller's Dramas.** Spring. (4 q. hrs.)

A study of the development of German classicism as embodied in Schiller's dramas; the theory, structure and dramaturgy of the classical drama in Germany.

Prerequisite: German 235 or permission of the department.

- 363. Lyrics and Ballads.** (Omitted 1969-70.) (4 q. hrs.)

A poetical and metrical survey of German lyrical verse from its beginning to modern times, with critical analysis of representative poems.

Prerequisite: German 235 or permission of the department.

410. Contemporary German Culture and Civilization. (Omitted 1969-70.) (4 q. hrs.)

A systematic study of present day Germany, Austria, and Switzerland.

Prerequisite: Three years of college German or permission of the department.

411. German Drama. (Omitted 1969-70.) (4 q. hrs.)

A study of the outstanding German dramas until 1800.

Prerequisite: Three years of college German or permission of the department.

412. Introduction to Goethe. (Omitted 1969-70.) (4 q. hrs.)

A study of Goethe from his earliest literary pursuit to 1806.

Prerequisite: Three years of college German or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. German Literature to 1700. Fall. (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

454. German Literature Since 1700. Winter. (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

455. Advanced Composition and Syntax. Spring. (4 q. hrs.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of German literature.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. History of German Civilization. Summer 1970. (4 q. hrs.)

Analysis of selected topics from German culture and civilization.

511. Modern German Drama. (Omitted 1969-70.) (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512. Goethe. Fall. (4 q. hrs.)

572. German Lyric Poetry from 1880 to the Present. Summer 1969. (4 q. hrs.)

Discussion and lectures on the development of modern concepts in the genre as reflected in the works of George, Rilke, Trakl, and others.

- 574. The German Drama of the Nineteenth Century.** Summer 1969.
(4 q. hrs.)

A study of the background and development of the theater in Germany. Reading and discussion of the works of Buchner, Kleist, Hebbel, Hauptmann, and others.

- 580. Seminar in German Literature.** Winter. (4 q. hrs.)

The study and discussion of various topics as chosen according to need.

Prerequisite: 16 quarter hours of 500 level courses or permission of the department head.

- 595. Thesis.** (4 q. hrs.)

LATIN

UNDERGRADUATE COURSES

- 120, 121, 122. Elementary Latin.** Fall, Winter, Spring.
(4 q. hrs. for each course.)

The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.

- 220. Introductory Latin Reading.** Fall, Winter. (4 q. hrs.)

Selection from Aulus Gellius, Phaedrus, and Caesar.

Prerequisite: Latin 122, or two years of Latin in high school.

- 221. Vergil's Aeneid.** Winter, Spring. (4 q. hrs.)

Selections from Book I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil.

Prerequisite: Latin 220 or permission of the department.

- 222. Orations of Cicero.** Spring. (4 q. hrs.)

Readings from the four orations against Catiline. Cicero's career and the political background of the conspiracy of Catiline are discussed.

Prerequisite: Latin 221 or permission of the department.

- 320. A Survey of Classical Roman Literature, Part I.** (Omitted 1969-70.)
(4 q. hrs.)

Chronological selections illustrative of Latin literature in the period of the Republic.

Prerequisite: Two years of college Latin or permission of the department.

- 321. A Survey of Classical Roman Literature, Part II.** (Omitted 1969-70.)
(4 q. hrs.)

Chronological selections illustrative of Latin literature in the period of the Empire.

Prerequisite: Two years of college Latin or permission of the department.

- 322 (311). Selected Letters.** (Omitted 1969-70.) (4 q. hrs.)

Readings from the correspondence of Cicero and Pliny.

Prerequisite: Two years of college Latin or permission of the department.

330. Cicero Essays, Selections from *De Amicitia* and *De Senectute*. Fall. (4 q. hrs.)

Prerequisite: Two years of college Latin or permission of the department.

331. Horace, Selections from the Odes, Satires, and Epistles. Winter. (4 q. hrs.)

Prerequisite: Two years of college Latin or permission of the department.

332. Livy, Selections from Books I, XXI, XXII. Spring. (4 q. hrs.)

Prerequisite: Two years of college Latin or permission of the department.

340. Methods of Teaching Latin. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Latin. Spring. (2 q. hrs.)

A course designed for Latin minors.

Prerequisite: Admission to teacher education.

433. Ovid, Selections from *Tristia*, *Heroides*, *Amores*, *Fasti*, *Metamorphoses*. (Omitted 1969-70.) (4 q. hrs.)

The life and times of Ovid; Roman and Greek mythology.

Prerequisite: Three years of college Latin or permission of the department.

434. Latin Composition. (Omitted 1969-70.) (4 q. hrs.)

Provides the Latin student with extensive training and practice in expressing himself in idiomatic classical Latin.

Prerequisite: Three years of college Latin or permission of the department.

435. Medieval Latin. (Omitted 1969-70.) (4 q. hrs.)

Readings in the history, poetry and philosophy of the Middle Ages. Special attention is given to the comparative philology of Latin and the Romance languages.

Prerequisite: Three years of college Latin or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. Tacitus, *Germania* and *Agricola*; Selections from *Annals* and *Histories*. Fall. (4 q. hrs.)

451. Selections from Catullus and Martial. Winter. (4 q. hrs.)

452. Roman Comedy. The *Menaechmi* and *Captives* of Plautus; The *Phormio* and *Andria* of Terence. Spring. (4 q. hrs.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Suetonius: *The Life of Augustus Caesar*. Winter. (4 q. hrs.)

Translation of a primary historical document pertaining to the rise of the Roman Empire; critical evaluation of Suetonius as a biographer and historian.

511. **Petronius, Cena Trimalchionis and Seneca, Apocolocyntosis.** Summer 1969. (4 q. hrs.)

Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.

512. **Apuleius, The Story of Cupid and Psyche.** Spring. (4 q. hrs.)

Translation of a major excerpt from Apuleius' *Metamorphosis*; introduction to the Eastern cults prevalent in Rome.

595. **Thesis.** (4 q. hrs.)

RUSSIAN

UNDERGRADUATE COURSES

- 140, 141, 142. **Elementary Russian.** Fall, Winter, and Spring. (4 q. hrs. for each course.)

Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.

- 250, 251, 252. **Second Year Russian.** Fall, Winter, and Spring. (4 q. hrs. for each course.)

Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose.

Prerequisite: Russian 142 or 2 years of high school Russian.

340. **Methods of Teaching Russian.** Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

341. **Methods of Teaching Russian.** Spring. (2 q. hrs.)

A course designed for Russian minors.

Prerequisite: Admission to teacher education.

350. **Applied Linguistics.** (Omitted 1969-70.) (4 q. hrs.)

351. **Conversation and Writing.** Fall. (4 q. hrs.)

352. **Aspects of Russian Civilization.** Winter. (4 q. hrs.)

360. **Modern Russian Authors.** Spring. (4 q. hrs.)

Reading of short selections from a wide range of authors such as Pushkin, Tolstoy, Dostoyevsky, Turgenev, Saltykov-Shchedrin, Lermontov, Gogol, Chekhov, Gorky, Sholokhov, and Simonov.

Prerequisite: Two years of college Russian or permission of the department.

361. **Masterpieces of Russian Literature.** The Russian Novel in the 19th Century. (Omitted 1969-70.) (4 q. hrs.)

Reading of selected chapters from *War and Peace*, *Anna Karenina*, *Brothers Karamazov*, *Crime and Punishment*, *Dead Souls*, and *Fathers and Sons*.

Prerequisite: Two years of college Russian or permission of the department.

363. **Chekhov and Other Russian Dramatists.** (Omitted 1969-70.) (4 q. hrs.)

The Three Sisters and The Cherry Orchard by Chekhov. The Lower

Depths by Gorky, and one play of the Soviet period will be read in their entirety.

Prerequisite: Two years of college Russian or permission of the department.

SPANISH

UNDERGRADUATE COURSES

130, 131, 132. Elementary Spanish. Fall, Winter and Spring. (4 q. hrs. for each course.)

Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

230, 231, 232. Second Year Spanish. Fall, Winter and Spring. (4 q. hrs. for each course.)

The first month of Spanish 230 is devoted to a review of the elements of the language. Several comedies and stories are read. Conversation in Spanish; films used to acquaint students with the history and culture of Spanish speaking countries.

Prerequisite: Two years of Spanish in high school or one year in college.

321. Introduction to Spanish Literature, 12th to 15th Centuries. Fall. (4 q. hrs.)

Study of development of medieval Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

322. Introduction to Spanish Literature, 16th to 17th Centuries. Winter. (4 q. hrs.)

Study of development of Renaissance and Golden Age Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

323. Introduction to Spanish Literature, 18th to 20th Centuries. Spring. (4 q. hrs.)

Prerequisite: Two years of college Spanish or permission of the department.

325. Introduction to Spanish American Literature, I. Fall. (4 q. hrs.)

A study of the development of Spanish American literature from the Colonial period to 1886.

Prerequisite: Two years of college Spanish or the equivalent.

326. Introduction to Spanish American Literature, II. Winter. (4 q. hrs.)

A study of the development of Spanish American literature from 1886 to present.

Prerequisite: Two years of college Spanish or the equivalent.

327 (331). Spanish Composition and Conversation. Spring. (4 q. hrs.)

Intermediate level course continuing the skills of speaking and writing

developed in the second year. Guided conversation, grammar review, oral and written composition.

Prerequisite: Two years of college Spanish or permission of the department.

340. Methods of Teaching Spanish. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Spanish. Spring. (2 q. hrs.)

A course designed for Spanish minors.

Prerequisite: Admission to teacher education.

410. Advanced Composition and Phonetics. (Omitted 1969-70.) (4 q. hrs.)

A study of fundamental aspects of spoken and written Spanish. Frequent oral and written reports required.

Prerequisite: Three years of college Spanish or permission of the department.

411 (310). Modern Short Stories of Spain. (Omitted 1969-70.) (4 q. hrs.)

Reading of Spanish short stories from latter part of the 19th century to present. Analysis and oral discussions in Spanish.

Prerequisite: Three years of college Spanish or permission of the department.

415. The Hispanic World. Fall. (4 q. hrs.)

A study of contemporary civilization in the Hispanic world against a view of the history of the Spanish Peninsula from ancient times and of Spanish America from its discovery.

Prerequisite: Three years of college Spanish or the equivalent.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456. The Short Story in Spanish America. Spring. (4 q. hrs.)

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457. Modern Poetry of Spanish America. Winter. (4 q. hrs.)

A study of the poetry of Spanish America, from the *modernista* movement to the present.

458. Modern Novel of Spanish America. (Omitted 1969-70.) (4 q. hrs.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Poetry of Spain. Winter. (4 q. hrs.)

Readings and analysis of Spanish poetry from 15th century to present.

511. Selected Modern Drama of Spain. Summer 1969. (4 q. hrs.)

Reading of complete modern dramas of Spain from second half of the 19th century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

512. Modern Novels of Spain. Summer 1970. (4 q. hrs.)

Reading of complete novels of Spain from latter part of the 19th century to present.

530. Spanish Bibliography. (Omitted 1969-70.) (4 q. hrs.)

Methods of location and acquisition of material available for research projects in the Hispanic field.

555. History of the Spanish Language. Spring. (4 q. hrs.)

Study of the development of the language from Vulgar Latin to Modern Spanish.

560. Classroom and Laboratory Techniques for College Spanish.

(Omitted 1969-70.) (4 q. hrs.)

A course particularly relevant to students preparing to teach at the junior college or college level.

561. Cervantes. (Omitted 1969-70.) (4 q. hrs.)

Study of the novel *Don Quijote de la Mancha* by Miguel de Cervantes Saavedra.

562. Theater of the Golden Age. Fall. (4 q. hrs.)

Study of the creation of Spanish National theater in the Golden Age and of selected works of the most prominent dramatists of the period.

564. Generation of 1898. Fall. (4 q. hrs.)

Study of representative writers of the Generation of 1898.

570. Spanish American Drama. Winter. (4 q. hrs.)

Study of Spanish American dramatic literature from its origin to the present.

571. Spanish American Poetry. Summer 1970. (4 q. hrs.)

Study of major movements in 20th Century Spanish American poetry and their critical interpretation and analysis.

572. Spanish American Novel: Middle America. (Omitted 1969-70.)
(4 q. hrs.)

Study of the different movements and themes in the novels of Mexico, Central America and the Antilles, with particular emphasis on the novel after 1910.

573. Spanish American Novel: South America. Summer 1969. (4 q. hrs.)

Study of different themes and movements in South American novel, with particular emphasis on the 20th Century.

580. Seminar of Spanish Literature. Summer 1969. (4 q. hrs.)

Special topic and research course devoted to selected problems, genres, literary movements and major writers in Spanish literature.

582. Seminar of Spanish American Literature. Spring. (4 q. hrs.)

Special topic and research course devoted to selected problems, genres, literary movements, and major writers in the Spanish American literature.

595. Thesis. (4 q. hrs.)**CLASSICS****GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Greek Literature in English Translation. Fall. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Greek literature from Homer to Demosthenes.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Latin Literature in English Translation. Summer 1969. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Latin literature from Plautus to Suetonius.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

FRENCH

(See Foreign Languages)

GEOGRAPHY AND GEOLOGY**GEOGRAPHY****UNDERGRADUATE COURSES**

Classes in the following courses have two lecture periods and two laboratory periods a week: 141, 142, 242, 300, 380, 381.

141. Physical Geography. Fall and Winter. (4 q. hrs.)

Study of weather and climate, the factors which influence them, and their importance to man; recent developments in knowledge of weather presented.

142. Physical Geography. Spring. (4 q. hrs.)

A study of the earth's surface, its landforms, water resources, soils, natural vegetation, and economic minerals, and their areal interrelationships; world patterns of distribution of physical elements of geography and their relationships to man. Field trip.

150. World Geography. Every quarter. (4 q. hrs.)

A survey in which significant areal differences in population are stressed. Man's areal setting and the working bonds he has developed with the land and its resources. Regional and topical approaches utilized. A study of the earth as the home of man.

151. Regional Geography of North America. Fall, Winter. (4 q. hrs.)

Introduction to the regional approach in geography, with North America, especially the United States, the example.

Prerequisite: Geography 150 or 141 or 142. No credit if Geography 302 has been taken.

241. Climates of the World. (Omitted 1969-70.) (4 q. hrs.)

Comparison of methods used in classifying climatic types. Consideration of genetically derived climatic types, to vegetation, soil and land-use associations. Applications of climatology to industry, agriculture, and aviation.

Prerequisite: Geography 141 or permission of instructor.

242. Regional Landforms. Winter. (4 q. hrs.)

A study of the landforms of the United States; work with maps of landforms with consideration of their composition, distribution, and the processes by which they were formed.

Prerequisite: Geography 142 or permission of instructor.

286. Soils of the World. Fall. (4 q. hrs.)

A description and classification of the major soils of the world. An introduction to the basic interrelationships of world soils with selected elements of the physical and cultural environment.

Prerequisite: Four quarter hours of geography or permission of instructor.

300. Elementary Earth Science I. Every quarter. (4 q. hrs.)

Physical elements of geography as earth science; phenomena of earth shape and motions, daylight, time, and seasons analyzed as they affect the earth as man's home. Common Illinois rocks and minerals, land forms, and earth resources introduced. Local field trip.

No credit if Geography 142 or Geology 140 has been taken.

301. Elementary Earth Science II. Winter. (4 q. hrs.)

An analysis of the weather and climatic elements and controls and world climatic regions. Daily weather maps explored.

No credit if Geography 141 has been taken.

302. North America. Winter and Spring. (4 q. hrs.)

Man's occupancy of the continent of North America with special emphasis on the United States. The regional approach used with some emphasis on the wise utilization of resources.

Prerequisite: One course in geography. No credit if Geography 151 has been taken.

340. Methods and Materials. Fall. (4 q. hrs.)

The nature of the discipline and its place in the school curriculum. Tests, reference materials, visual and other aids, and classroom procedures considered. Some classroom experience in teaching techniques.

Prerequisite: Admission to teacher education and junior standing.

351. Geography of the Caribbean Lands. Fall. (4 q. hrs.)

An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands. Recent political, economic and population changes emphasized.

360. Economic Geography. Every quarter. (4 q. hrs.)

An examination of world industries and the areal significance of economic activities. The geographic significance for each economic activity is considered as well as an evaluation of the varying importance of each to the world economy.

361. Advanced Economic Geography I. Winter. (4 q. hrs.)

Geography of transportation and domestic and foreign trade; special emphasis is on the physical pattern of transportation routes and the various functions of urban settlement and the importance of these to our economy.

362. Advanced Economic Geography II. Spring. (4 q. hrs.)

The essential agricultural resources of the world and their associated industries are studied. Special emphasis on the geographic aspects of recent economic developments which have national and international significance.

370. Geography of Illinois. Winter. (4 q. hrs.)

A study of Illinois climate, landforms, soil, water and mineral resources. Population distribution and economic activities. Geography of the State also interpreted in the light of its historical setting.

380. Cartography. Fall and Winter. (4 q. hrs.)

Instruction and practice in the fundamentals of map projections, map construction, and reproduction.

381. Field Techniques and Problems. Spring. (4 q. hrs.)

Experience in defining and solving field problems through collecting, classifying, and analyzing data in the field. Plane tabling, making of simple field maps, use of aerial photographs and competence in field techniques stressed.

387. Conservation of Natural Resources. Spring. (4 q. hrs.)

Study of problems dealing with the wise use of soils, minerals, forests, animals, and waters with special reference to Illinois and the United States. Some field trips used as laboratory sessions.

446. Urban Geography. Fall. (4 q. hrs.)

A study of the urban areas of the world. Analysis is made of the origins, development, distribution, character, structure, and functions of urban centers and their peoples.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. North America. (Omitted 1969-70.) (4 q. hrs.)

An advanced study which emphasizes the United States' landforms, resources, cities, rivers, transportation routes and economic areas which are treated in their regional settings.

451. Geography of South America. Winter. (4 q. hrs.)

Physical features, resources, peoples, land utilization, and economic development of the countries of South America.

452. Geography of Europe. Spring. (4 q. hrs.)

A study of the countries of Europe and the geographic basis for their stages of development and commercial and political relations; emphasis upon current problems.

453. Geography of Asia. (Omitted 1969-70.) (4 q. hrs.)

Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.

455. Geography of the U.S.S.R. Winter. (4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in which the Russian people live and work. Analysis of the present economic development and of the industrial potential of the Soviet Republic.

456. The North American Midwest. Fall. (4 q. hrs.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central United States. The geography of Illinois is given special attention.

457. Geography of the Pacific. (Omitted 1969-70.) (4 q. hrs.)

A regional study of the Pacific. The regions of study include Australia-New Zealand, Micronesia, Melanesia, Polynesia, Indonesia and Philippines. Development and interpretation of physical, political, economic and social regions in the Pacific.

458. Geography of Africa. Spring. (4 q. hrs.)

A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.

470. Historical Geography of the United States. Fall. (4 q. hrs.)

A study of the elements of geography and the role they have played in the various stages in the settlement and subsequent development of the United States.

471. Political Geography. (Omitted 1969-70.) (4 q. hrs.)

A study of the great world powers in the light of their geographic conditions. Analysis is made of current "hot spots" and the fundamentals of national strength.

480. Advanced Cartography. Spring. (4 q. hrs.)

A study of the history, uses, and construction of maps, cartographic work and use of aerial photographs; individual projects and problems.

Prerequisite: Geography 380.

486. Geography of Soils. (Omitted 1969-70.) (4 q. hrs.)

An advanced course with emphasis on interrelationships of soil with other features of the physical and cultural environment. Special emphasis given to United States soils. Introduction to selected soils research in Illinois. Short field trips with independent work.

Prerequisite: Geography 286 or permission of instructor.

487. Regional Problems in Conservation. (Omitted 1969-70.) (4 q. hrs.)

The distribution, use, and interrelationship of resources in the various resource management regions of the United States, the conservation techniques applied to them, and the problems of public policy in their effective management.

490, 491, 492. Independent Study. Every quarter. (4 q. hrs. for each course.)

Provides opportunity for the student to do independent study. Designed for the individual needs of the student at the graduate or undergraduate level.

With permission of department head and approval of Dean, Letters and Science, these courses may be taken for less than 4 q. hrs. credit.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a student whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Philosophy and Literature of Geography. Spring. (4 q. hrs.)

Acquaints students in geography with the materials available for study and research in the field. Basic philosophies in geography analyzed.

511. Techniques in Geographic Research. Winter. (4 q. hrs.)

An introduction to and application of selected techniques valuable in geographic research. Particular emphasis is accorded to statistical methods, bibliographic research, and interview methods.

Prerequisite: Permission of the instructor.

513. Landform Regions of the United States. (Omitted 1969-70.) (4 q. hrs.)

An areal approach to the study of landform regions of the conterminous states. Various systems of landform classification evaluated.

Open only to seniors and graduate students.

530. Advanced Historical Geography. (Omitted 1969-70.) (4 q. hrs.)

Selected studies of changes in the geographical bases of man's use of the land from pre-Columbian times to the present in North America will be the core of this course.

Open only to graduate students and seniors who have taken Geography 470, or have the permission of the instructor.

531. Advanced Political Geography. (Omitted 1969-70.) (4 q. hrs.)

Study of the role of geographic elements in the development of political regions of all levels. Special emphasis devoted to the power structure of the world today.

Open only to graduate students.

550. Geography in World Affairs. Fall. (4 q. hrs.)

Working bonds between man and the environment; emphasis upon the natural resources, agricultural and industrial production and transportation in national affairs. Problems of international politics and their geographic foundations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. A Geography of Man. (Omitted 1969-70.) (4 q. hrs.)

Designed to give the student a better understanding of the role of geography in human affairs. Special attention given to the literature of the field and recent developments in geography.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Earth Interpretations. (Omitted 1969-70.) (4 q. hrs.)

Cultural course for the student with little or no previous work in physical geography. Physical resources are analyzed as they are inter-related to each other and to man.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556 (553). Bio-geography. (Omitted 1969-70.) (4 q. hrs.)

Physical factors which influence plants and animals: distribution, climatic conditions, glaciation, soils, physiognomy, including barriers, succession, climax, and competition.

560. Seminar in Physical Geography. Fall. (4 q. hrs.)

Selected topics in weather, climate, landforms, and ocean geography.

Prerequisite: Geography 142 or the equivalent.

562. Seminar in Earth Resources. Winter. (4 q. hrs.)

A course developing, in some detail, aspects of soil, water, vegetation and minerals as earth resources.

Prerequisite: Permission of the instructor.

563. Seminar in Regional Geography. Spring. (4 q. hrs.)

Intensive study of special regions of the world. The regions to be determined by the areas of specialization of the students.

Prerequisite: Permission of the instructor.

570. Seminar in Population and Settlement. (Omitted 1969-70.) (4 q. hrs.)

Analysis of the ways in which man and his culture have come to be variously distributed over the surface of the earth.

571. Seminar in Economic Geography. (Offered on demand.) (4 q. hrs.)

A course devoted to selected topics in economic geography.

574. Seminar in Area Planning. Winter. (4 q. hrs.)

The study of geographic factors as applied to urban, community, and regional planning. Special emphasis on local planning problems.

Prerequisite: Permission of instructor.

590. Seminar in Educational Geography. (Offered on demand.) (4 q. hrs.)

The place of geography among the disciplines at all levels of instruction from elementary school through junior college. A written report of significant research on some phase of the discipline.

595. Thesis. (4 q. hrs.)

GEOLOGY

UNDERGRADUATE COURSES

Note: All geology courses have two one-hour lectures and two two-hour laboratory periods per week.

140. Physical Geology. Every quarter. (4 q. hrs.)

A study of earth materials and processes; attention given to common rocks and minerals, vulcanism, erosional processes, tectonic forces, and map interpretation. Field trip.

243. Historical Geology. Every quarter. (4 q. hrs.)

Origin of the Earth and evolution of its crust; relations among rock units; fossils as documents of evolution, and environment; radiometric age measurements. Field trip.

Prerequisite: Geology 140.

244. Mineralogy. Fall. (4 q. hrs.)

A study of minerals with emphasis on crystallography, genesis, association, and classification.

Prerequisite: Geology 140 and Chemistry 120 or 150.

245. Principles of Geomorphology. Every quarter. (4 q. hrs.)

Physical and mathematic analysis of processes that modify the Earth's surface; diastrophism, structural and climatic controls; sequential development of landscape, recognition of ancient topography; analysis of surface features utilizing topographic and geologic maps and aerial photographs. Field trip.

Prerequisite: Geology 140.

343. Structural Geology. Winter. (4 q. hrs.)

Forces involved in the deformation of rocks with emphasis on the recognition, interpretation, and illustration of the resultant geologic structures. Field trip.

Prerequisite: Geology 243.

344. Field Geology. Spring. (4 q. hrs.)

Solution of geologic problems using field methods and techniques in collection, classifying and analyzing data. Includes field mapping and construction of maps. Field trips.

Prerequisites: Geology 243 and 254 and permission of the instructor.

345. Petrology. Spring. (4 q. hrs.)

Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip.

Prerequisite: Geology 140.

346. Economic Geology. Fall. (4 q. hrs.)

Origin, geologic occurrence and utilization of metallic and non-metallic mineral deposits including fuels and ground-water. Field trip.

440. Independent Study. Every quarter. (4 q. hrs.)

Independent study in the field of geology, designed for the individual needs of the student.

Prerequisites: Geology 243 and 245, or permission of the instructor.

441. Independent Study. Every quarter. (2 q. hrs.)

Independent study in the field of geology, designed for the individual needs of the student.

Prerequisites: Geology 243 and 245, or permission of the instructor.

445. Principles of Stratigraphy. Spring. (4 q. hrs.)

Development of the stratigraphic column; stratigraphic paleontology; sedimentary facies and basic stratigraphic relationships; principles of correlation; tectonic framework of sediments. Field trip.

Prerequisite: Geology 243.

447. Sedimentation. Winter. (4 q. hrs.)

Sources of sediments; agents of transportation; environments of deposition; post-depositional changes; properties of sedimentary rocks, classification; analytical laboratory techniques.

Prerequisite: Geology 345.

449. Invertebrate Paleontology. Fall. (4 q. hrs.)

Description and classification of major fossil invertebrate groups; preservation of fossils; methods in paleontology; use of fossils in geologic work. Field trip.

Prerequisite: Geology 243 or permission of instructor.

GERMAN

(See Foreign Languages)

HISTORY**UNDERGRADUATE COURSES****233. History of the United States to 1840.** Every quarter. (4 q. hrs.)

The colonial period; the independence movement; the framing and adoption of the Constitution; the growth of American nationality; Western development and Jacksonian democracy.

234. History of the United States, 1841 to 1898. Every quarter. (4 q. hrs.)

Manifest Destiny and the slavery controversy; the Civil War and Reconstruction; the new industrial society and the agrarian movement.

235. History of the United States Since 1898. Every quarter. (4 q. hrs.)

The War with Spain. The United States as a World Power; the growth of industry and the progressive movement; the First World War; postwar problems; depression and the New Deal; the Second World War; postwar problems, foreign and domestic.

244. Ancient History. Fall, Winter and Spring. (4 q. hrs.)

The ancient Middle East; Ancient Greece; Hellenistic Age; Roman Republic; Roman Empire, its rise and decline. Covers the period of time from c. 3000 B.C. to 500 A.D.

245. Medieval Europe. Fall, Winter, and Spring. (4 q. hrs.)

Germanic invasions; rise of The Papacy; rise of Frankish Empire; Carolingian empire; feudalism; Mohammedanism; beginnings of national states; Crusades; medieval culture—universities, literature, art; 100 Years' War; decline of Church.

246. European History, c. 1500-1715. Fall, Winter, and Spring. (4 q. hrs.)

A study of the emergency of modern Europe, rise of national states, Renaissance, Reformation, Catholic Reformation, age of discovery and exploration, age of Philip II—1556-88, rise of absolutism in France—1598-1660, decline of monarchy in England—1603-69, Thirty Years' War—1618-1648. Age of Louis XIV.

247. European History, c. 1715-1870. Fall, Winter, and Spring. (4 q. hrs.)

Rise of Russia and Prussia in the eighteenth century; colonial rivalry of France and England; the Enlightenment; French Revolution and Napoleon.

248. European History, 1870 to Present. Fall, Winter and Spring. (4 q. hrs.)

Triumph of nationalism in Germany and Italy; Second Industrial Revolution; background of World War I; World War I; Fascism, Nazism, World War II; Cold War.

281. Latin-American History to 1830. Fall. (4 q. hrs.)

Exploration and settlement of the Spanish and Portuguese empires in the western world; colonial development; the era of revolution and independence; the relationships between the Latin-American colonies and nations with the English colonies and the United States.

282. Latin-American History Since 1830. Winter. (4 q. hrs.)

Political, economic, and cultural development; relationships between the Latin-American republics and the United States. The Monroe Doctrine; the Pan-American Union; the "Good Neighbor" policy; the origination of the American states.

323. Economic History of the United States, 1607-1860. (Omitted 1969-70.) (4 q. hrs.)

An examination of the American economy to the Civil War. Growth of capacity to produce, evolution of entrepreneurial practices and business organization, changes in communications and markets, elements of labor force, government regulation, and economic philosophies.

324. Economic History of the United States, 1860-1929. (Omitted 1969-70.) (4 q. hrs.)

An examination of the American economy from the Civil War to the crash of 1929.

325. Economic History of the United States, 1929 to the Present. (Omitted 1969-70.) (4 q. hrs.)

An examination of the American economy from the crash of 1929 to the present.

343. History of England to 1603. Fall and Spring. (4 q. hrs.)

Early settlement of the British Isles; Roman occupation; Anglo-Saxon civilization; the early Church; the Norman Conquest and relations with France; the development of the common law and Parliament; the development of the Church and the separation of the Anglican Church; English art and literature.

344. History of England and the British Empire, 1603 to 1815. Winter and Spring. (4 q. hrs.)

Discovery, colonial expansion, the founding of the British Empire; the constitutional struggles and the supremacy of Parliament; the commercial, agricultural, and industrial revolutions; the literature and science of the period; the struggle with France for colonial supremacy.

345. History of the British Empire Since 1815. Spring. (4 q. hrs.)

The reformation of Parliament; the development of industry and commerce and trade rivalry; development of scientific thought; the First World War and its consequence; the Empire's greatest test in the Second World War.

360. The Early National Period 1787-1812. Winter. (4 q. hrs.)

A detailed study of the constitutional convention; the formative years of the federal government; the conflict between Hamiltonian and Jeffersonian philosophies; the formation of political parties and American neutral rights.

361. The Early National Period 1812-1840. Spring. (4 q. hrs.)

A detailed study of the war of 1812; the era of good feelings; the rise of neo-federalism; the evolution of modern political parties; the compromise of 1820; the age of Jackson.

370. History of Illinois. (Omitted 1969-70.) (4 q. hrs.)

The Indian culture; the French regime; the British period; the old Northwest; the frontier state; the Civil War; the industrial state, the twentieth century.

371 (492). Expansion and Disunion, 1820 to 1861. Winter. (4 q. hrs.)

Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.

372 (471). Civil War and Reconstruction. Spring. (4 q. hrs.)

The causes of the Civil War; political, economic, and social problems during the War; the military phases of the War; post-war problems both North and South; the Civil War as a revolution.

378 (478). Czarist Russia. (Omitted 1969-70.) (4 q. hrs.)

The rise of Muscovy. Peter the Great and Katherine the Great; the Napoleonic era; reaction and reform in the nineteenth century; Russia in the First World War.

379 (479). Soviet Russia. (Omitted 1969-70.) (4 q. hrs.)

The organization of the Communist Party; the Revolution of 1917; Lenin and Stalin; Russia and World War II.

380. The Negro in U.S. History. Every quarter. (4 q. hrs.)

Emphasis on the role of the Negro in American history and the importance of the Negro's own history.

399. Summer Study in Ireland. Summer. (9 q. hrs.)

Independent research in history. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453, 454. Constitutional History of England.** Fall, Winter. (4 q. hrs. for each course.)

A study of the English constitution to the time of Henry VII. Emphasis on the development of political institutions essential to western democracy, special emphasis on the development of the common law, the court system, the conflicts between king and parliament, and changing character of the British constitution.

460. Recent United States History, 1900-1930. Winter. (4 q. hrs.)

An intensive study of America's rise to world power, the Progressive Era, the United States' role in the First World War, the 1920's and the background to the Great Depression.

461. Recent United States History, Since 1930. Fall and Spring. (4 q. hrs.)

An intensive study of the Great Depression, the New Deal, Isolationism, the U.S. and the Second World War, the Cold War, the Truman era, and the Eisenhower Years.

- 462. Social and Intellectual History of the Russian Revolution, 1825-1917.** (Omitted 1969-70.) (4 q. hrs.)

History of ideological, social, political, and economic forces which led to the Soviet Revolution of 1917; Decembrists, Radicals, Populism, and Marxism in Russia.

- 463. Social and Intellectual History of the Russian Revolution, 1917 to Present.** (Omitted 1969-70.) (4 q. hrs.)

February and October Revolution, War Communism, New Economic Policy, Collectivization and Industrialization, Party Congresses, Formation of the USSR, Dictatorship; Lenin, Stalin, Khrushchev.

- 464. Problems in Latin-American History.** Winter. (4 q. hrs.)

A systematic, analytic and interpretive examination of major problems of Latin-American history. Beginning with the principal aspects of the three hundred to four hundred years of Spanish and Portuguese heritage, the study proceeds through the national period to the present, considering the main features arising from the environment of the New World, in conjunction with the legacy of the Old.

- 465. Latin America and the United States.** Spring. (4 q. hrs.)

An examination of the history of the relationships between Latin America and the United States from independence to the present day. The economic, social, and intellectual factors which underlie diplomatic intercourse are analyzed.

- 466. History of American Frontier, The Colonial Period (1492-1783).** Fall. (4 q. hrs.)

A study of the discovery, settlement and westward push of population in the area now included in the United States, with emphasis on the effect of the frontier on the institutions and the people of America.

- 467. History of the American Frontier: The Trans-Appalachian Frontier, 1783-1850.** Winter. (4 q. hrs.)

A study of the westward push of Americans into the Mississippi Valley, the growth of new states, the West in the War of 1812, and the role of the frontier west in the growth of sectionalism in the United States prior to the Civil War.

- 468. History of The American Frontier: The Western Frontier.** (Omitted 1969-70.) (4 q. hrs.)

A study of the growth of the Trans-Mississippi West from the earliest Indian and Spanish influences through the period of American expansion and acquisition, and the growth of the West to prominence in American history to 1890.

- 469. Constitutional History of the United States to 1865.** Spring. (4 q. hrs.)

English backgrounds; the colonial governments; the Declaration of Independence; the Articles of Confederation; the early state constitutions; the making of the Constitution; the first Supreme Court, the Marshall Court, the Taney Court.

470. Constitutional History of the United States Since 1800. Fall. (4 q. hrs.)

The Reconstruction decisions; the Court and big business; the Court and imperialism; the Progressive Era. The Court and freedom of speech; the Court and civil rights, The New Deal.

474. Diplomatic History of the United States, 1776-1898.

(Omitted 1969-70.) (4 q. hrs.)

The origins of American foreign policy; the American Revolution; the Napoleonic Wars; the expansion movements, the Civil War; the awakening of Imperialism.

475. Diplomatic History of the United States, 1898-1933. Fall. (4 q. hrs.)

The new Manifest Destiny; the Spanish War; the Age of Roosevelt; Dollar Diplomacy; the New Diplomacy; World War I; the Peace of Versailles; the retreat from responsibility.

476. The American Colonies. Fall. (4 q. hrs.)

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

477. The American Revolution and Confederation. Winter. (4 q. hrs.)

The background and causes of the American Revolution; political and social results of the revolution; problems of the Critical Period; formation of the Constitution.

480. Diplomatic History of the United States, 1933-Present. Winter.

(4 q. hrs.)

The isolationist thirties; the origins of World War II; the wartime conferences; the origins of the cold war; the emerging nations; the Sino-Soviet split; Truman, Dulles, Kennedy, Johnson.

485. Europe in the Eighteenth Century. Fall. (4 q. hrs.)

The struggle to maintain the balance of power; the contest for empire; the development of responsible government in England; the origins of industrial and agricultural revolution.

486. The World in the Twentieth Century I. Winter. (4 q. hrs.)

The First World War, the Soviet Union and Communism, Nazi Germany, the Second World War, the decline of colonialism and emerging nationalism in Asia and Africa, the cold war and world problems in a nuclear age. Emphasis is placed upon an understanding of contemporary events and their antecedents.

487. Labor History of the United States, 1607-1900. Fall. (4 q. hrs.)

An examination of American labor from Colonial times to 1900; categories of labor (slave, indentured servant, wage); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political, and intellectual institutions and movements to the American laborer.

488. Labor History of the United States, 1900 to the Present. Winter.
(4 q. hrs.)

An examination of American labor from 1900 to the present: circumstances of labor (immigrant, Negro, urban, white-collar, agrarian); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political and intellectual institutions and movements to the American laborer.

489. The French Revolution. Winter. (4 q. hrs.)

The Old Regime; Estates-General and National Assembly; Republic, Patterns of Revolution.

490. Europe in the 19th Century. Spring. (4 q. hrs.)

Congress of Vienna; Reaction and Revolution; the Industrial Revolution; the Second Empire; unification of Italy and Germany; Parliamentary reform in Great Britain; Triple Alliance and Triple Entente.

495. Social and Intellectual History of the United States in the Colonial Period. (Omitted 1969-70.) (4 q. hrs.)

The transfer of culture from Europe to the English Colonies. The development of traits and ideas that are characteristic of the United States. The development of religious, scientific, educational, and political theories that influence the United States.

496. Social and Intellectual History of the United States in the 19th Century. (Omitted 1969-70.) (4 q. hrs.)

The development of ideas and way of life in the United States in the 19th Century.

497. Eastern Europe from World War I to the Present. Spring. (4 q. hrs.)

The emergence of Poland, Czechoslovakia, Yugoslavia, Albania and changes in Rumania and Bulgaria. Development between wars. World War II and the formation of the communist regimes in that area. Soviet hegemony and the national conflicts. Nationalism versus Communism.

499. Social and Intellectual History of the United States in the Twentieth Century. Fall. (4 q. hrs.)

The development of ideas and way of life in the United States during the twentieth century with emphasis on the changes in American life and thought brought about by the United States participation in two world wars.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

535. Problems in the Emergence of Modern America, 1877-1900. Spring.
(4 q. hrs.)

An intensive study by the student into the major problems created in this

period of industrialization, urbanization, and immigration. The course emphasizes both primary sources and secondary interpretations.

540. Problems in the Diplomatic History of the United States. Spring.
(4 q. hrs.)

Intensive reading by the student in a major problem of American Diplomatic History. The course emphasizes both secondary and primary works in the area chosen by the professor.

545 (472). Special Problems in American History. Fall. (4 q. hrs.)

Special study by intensive reading in an area of history.

546. The Period of the Early Renaissance, 1300-1517. Winter. (4 q. hrs.)

A study of the interaction of various institutional and intellectual developments, both religious and secular, which produced the cultural flowering of the early Renaissance, laid the foundations of modern society, and were to contribute to the religious upheaval of the Reformation.

547. The Period of the Later Renaissance and of the Reformation, 1517-1648. Spring. (4 q. hrs.)

A study of the interaction of religious and secular influence in the religious revolt and the consolidation of the institutional structure of early modern Europe through the period of the Thirty Years War.

550. Abraham Lincoln. (Omitted 1969-70.) (4 q. hrs.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551 (494). The Literature of American History. (Omitted 1969-70.)
(4 q. hrs.)

A study of great historical writings against the backgrounds of the times and places in which they were written.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

561. Historiography and Historical Methods. Fall and Spring. (4 q. hrs.)

A study of the methods of historical research. Selection of a topic of research and its limitations, the acquisition of material, and the study of style in historical writing.

563. Seminar in American History. Winter. (4 q. hrs.)

Intensive study of special topics in American history, to be determined by the interests of the students.

564. Seminar in European History. Fall. (4 q. hrs.)

Intensive study in special topics in European history, to be determined by the interests of the students.

565. Seminar in Colonial American History. (Omitted 1969-70.) (4 q. hrs.)

Research in topics dealing with colonial American history.

566. Seminar in Civil War and Reconstruction. Winter. (4 q. hrs.)

Intensive study in topics dealing with Civil War and Reconstruction.

567. Seminar in Social and Intellectual History. Spring. (4 q. hrs.)

Research in topics dealing with social and intellectual history of the United States.

568. Seminar in Eighteenth Century Europe. Winter. (4 q. hrs.)

Intensive study in topics dealing with eighteenth century Europe.

569. Seminar in Nineteenth Century Europe. Winter. (4 q. hrs.)

Intensive study in topics dealing with nineteenth century Europe.

570. Seminar in Twentieth Century Europe. Spring. (4 q. hrs.)

Intensive study in topics dealing with twentieth century Europe.

571. Seminar in Twentieth Century America. Fall. (4 q. hrs.)

Intensive study in topics dealing with 20th century America.

572. Russian Foreign Policy, 1814-1960. Spring. (4 q. hrs.)

Study in Russian foreign relations beginning with Congress of Vienna. Special attention given to the Congresses of Paris and Berlin, Russian expansion into the Balkans, Russia's role in both World Wars; Soviet Policy of international Communism and coexistence.

574. Seminar in the American West. Spring. (4 q. hrs.)

An intensive study of western topics with emphasis on a seminar paper.

575. Seminar in the Labor History of the United States. Spring. (4 q. hrs.)

A detailed study of selected topics in the history of American labor from 1607 to the present stressing research, analysis, and writing in the specialized secondary and primary materials available.

595. Thesis. (4 q. hrs.)

JOURNALISM

(Taught in the Department of English)

UNDERGRADUATE COURSES

210. Introduction to Journalism (History of Journalism). Spring. (4 q. hrs.)

Study of the historical development in America of the mass media, with emphasis on the newspaper, with attention to the mechanics, the craft, and the ethics of journalism.

211. Beginning Reporting. Fall. (4 q. hrs.)

Principles of gathering and writing news, with practice in the classroom. Attention is given to identification of elements of the news, basic news story form and variations of the basic form.

212. Beginning Reporting II. Winter. (4 q. hrs.)

Techniques of reporting are stressed, with practice in the classroom and on the *Eastern News*. Reporting of specialized stories is introduced.

Prerequisite: Journalism 211.

310. News Editing and Make-Up. Fall. (4 q. hrs.)

Editing the news, with attention to headwriting and newspaper makeup and design. Editing of newspaper photography is also discussed.

Prerequisite: Journalism 212.

311. Advanced Reporting. Winter. (4 q. hrs.)

Advanced types of news investigation and treatment. Practical experience is gained on a commercial newspaper. Writing of editorials and preparation of editorial judgments.

Prerequisite: Journalism 310.

312. Feature Writing (Magazine Articles). Spring. (4 q. hrs.)

Writing newspaper features and magazine articles. Study of markets, selection of subjects, investigation of subjects, organization of stories; preparation of articles.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. Supervision of High School Publications.** Summer. (4 q. hrs.)

A course designed especially for advisors to high school publications, or students interested in such positions. Topics include staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

(The Library Science department offers a sequence of basic undergraduate courses for the preparation of librarians. A minor consists of twenty-four quarter hours, including 330 or 332. The addition of Education 487 and 488 is necessary for certification as an Instructional Materials Coordinator. Courses are open to juniors and seniors only. Those intending to take a minor in the field should work out their programs with the instructors.)

UNDERGRADUATE COURSES**320. The School Library Materials Center.** Fall and Winter. (4 q. hrs.)

The organization and administration of school libraries, with special emphasis on instructional materials. The purpose, history, basic operation, and standards will be covered.

330. Literature for Children. Fall, Winter, and Spring. (4 q. hrs.)

Types of resources best suited to children of grades 1 through 6. Includes reading and evaluation of materials both past and present; the study of children's needs and interests; their reading habits and abilities.

332. Literature for Young People. Fall and Winter. (4 q. hrs.)

Types of resources best suited for adolescents. Includes reading and evaluation of materials; the study of young people's needs and interests, abilities, and reading habits. Designed to acquaint the student with extent, selection, and use of materials.

430. Organization of Library Materials. Winter and Spring. (4 q. hrs.)

Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other library materials. Detailed study is made of the Dewey Decimal Classification System.

Prerequisite: Library Science 320.

450. Reference Materials and Services. Fall and Spring. (4 q. hrs.)

Introduction to general and specialized sources of information: their content, evaluation, and use. Includes preparation and use of bibliographies; the study of indexes, dictionaries, encyclopedias, and other reference tools.

Prerequisite: Library Science 320, or permission of instructor.

460. Selection of Library Materials. Fall, Winter and Spring. (4 q. hrs.)

Sources of and criteria for selection of all types of library materials; bibliographical tools, reviewing and evaluating media; publishers and jobbers; purchasing procedures; and other problems related to selection and acquisition.

Prerequisite: Library Science 320.

490. Observation and Practice. Fall, Winter and Spring. (4 q. hrs.)

Designed to provide practical experience in library work with special emphasis on service to the public. Six periods per week under professional supervision comparable to student teaching. Weekly seminars under direction of the instructor. Part of this experience may be in the audio-visual field.

Prerequisite: At least four Library Science courses including 430, 450, and 460.

LIFE SCIENCE

UNDERGRADUATE COURSES

Note: Life Science 100 meets in two single periods and two double period laboratory sessions each week.

100. Introductory Life Science. Every quarter. (4 q. hrs.)

A study of the fundamental processes and structures common to all living things and which are therefore basic to an understanding of both plants and animals.

This course is prerequisite to all botany and zoology courses.

340. Methods of Teaching Biological Science in the High School. Every quarter. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Biological Science in the High School. Spring.
(2 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing. Enrollment is restricted to students with a minor or a field of specialization in life science (botany, zoology or biological science) who do not have credit for Life Science 340.

MATHEMATICS

Notes. In planning student programs it is important to check the course prerequisites as listed with the course descriptions below. "College preparatory mathematics," as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics," "consumer mathematics," "shop mathematics," etc.

A limited amount of programmed materials and tutoring service is available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 130.

Students with a weak background in mathematics may satisfy the general requirements in mathematics by taking Mathematics 125 if 4 quarter hours are required, Mathematics 125 and 126 if 8 quarter hours are required. Students with a background of two and one-half or more units of college preparatory mathematics in high school should take courses numbered 130 or higher to satisfy general requirements.

Students with a background of three or more units of college preparatory mathematics including trigonometry should take the mathematics department placement test before enrolling in Mathematics 130.

UNDERGRADUATE COURSES

122. Numerals and Numbers I. Every quarter. (3 q. hrs.)

Concepts of numeration and number systems developed using physical as well as abstract models. Sets, mathematical systems, natural numbers, integers, and modular arithmetic. *The maximum total credit from Mathematics 122, 123, 222, which may be counted toward meeting graduation requirements is six quarter hours.*

Prerequisite: Enrollment in this course is restricted to students in the curriculum for elementary teachers or the curriculum for junior high school teachers who do not meet the prerequisites for Mathematics 222.

123. Numerals and Numbers II. Every quarter. (3 q. hrs.)

A continuation of Mathematics 122. Mathematical systems; rational and real numbers; complex numbers. *Not open to students who have met the prerequisites for Mathematics 222.*

Prerequisite: Mathematics 122. Enrollment in this course is restricted to students in the curriculum for elementary teachers or the curriculum for junior high school teachers who do not meet the prerequisites for Mathematics 222.

125. Elementary Mathematics. Every quarter. (4 q. hrs.)

A selection of units on the basic concepts of arithmetic, algebra, geometry. *Not open to mathematics majors or minors.*

126. Elementary Mathematics. Fall, Winter, and Spring. (4 q. hrs.)

A continuation of Mathematics 125.

Prerequisite: Mathematics 125.

130. Algebra. Every quarter. (4 q. hrs.)

Exponents, radicals, factoring, linear and quadratic equations, inequalities, logarithmic and exponential functions, systems of equations and inequalities.

Prerequisite: Two years of college preparatory mathematics.

131. Trigonometry. Every quarter. (4 q. hrs.)

Trigonometric functions, right triangle trigonometry, identities and equations, inverse trigonometric functions, law of sines, law of cosines, complex numbers, and polynomials.

Prerequisites: Mathematics 130, or three years of college preparatory mathematics and satisfactory placement test score.

132. Elementary Functions. Every quarter. (4 q. hrs.)

Solution of equations and inequalities, functions, trigonometric functions, systems of linear equations, complex numbers, theory of polynomial equations.

Prerequisite: Three years of college preparatory mathematics and satisfactory placement test score. Not offered for credit for those who have credit for Mathematics 130 or 131.

134. Analytic Geometry. Every quarter. (4 q. hrs.)

Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques.

Prerequisite: Mathematics 131, or 132, or three years of college preparatory mathematics including trigonometry, and satisfactory placement test score.

135. Calculus. Every quarter. (4 q. hrs.)

Limits; continuity; differentiation of algebraic functions; applications; introduction to integration.

Prerequisite: Mathematics 134.

222. Numerals and Numbers III. Fall. (4 q. hrs.)

The content of elementary mathematics presented from an advanced point of view. Sets, mathematical systems, natural numbers, whole numbers, integers, rational and real numbers, modular arithmetic and coordinate arithmetic. *Not open to students with credit in Mathematics 123.*

Prerequisite: Three years of mathematics in high school, and an ACT mathematics score above the 75th percentile; or permission of instructor. Enrollment in the curriculum for elementary teachers, or the curriculum for junior high school teachers.

225. An Introduction to College Mathematics. Winter, Spring. (4 q. hrs.)

Numeral systems; the natural number system; the computation algorithms; the growth of the number concept; rules of inference; sets, relations, functions; an introduction to groups and fields.

231. Electronic Computer Programming. Every quarter. (4 q. hrs.)

Digital computer programming. Laboratory practice on the IBM 1620 using basic machine language, SPS, FORTRAN.

Not open to freshmen.

232. Introduction to Computer Programming. Winter, Spring, Summer. (1 q. hr.)

Computer programming in FORTRAN.

234. Analytic Geometry and Calculus. Spring. (4 q. hrs.)

Plane and solid analytic geometry. The calculus of polynomials. Applications.

Prerequisite: Mathematics 134. No credit toward graduation if student has credit for Mathematics 235 or its equivalent. Not open to students enrolled in a curriculum which includes Mathematics 235.

235, 236, 237 (345). Calculus. Every quarter. (4 q. hrs. for each course.)

Applications of the definite integral; transcendental functions; techniques of integration; hyperbolic functions; vectors and parametric equations; partial differentiation; multiple integrals; infinite series; differential equations.

Prerequisite: Mathematics 135; to be taken in sequence.

320. Mathematics in Grades K-3. Every quarter. (2 q. hrs.)

Methods and materials for teaching mathematics in grades K-3. *Credit for this course does not count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.*

Prerequisite: Mathematics 123 or 322.

321. Mathematics in Grades 4-6. Every quarter. (2 q. hrs.)

Methods and materials for teaching mathematics in grades 4-6. *Credit for this course does not count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.*

Prerequisite: Mathematics 123 or 322.

322. Algebra and Geometry I. Fall, Winter, Spring. (4 q. hrs.)

The organization and structure of algebraic and geometric models. Study of such systems from an advanced point of view. *Not open to students in the curriculum for junior high school teachers.*

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 222, or Mathematics 122 and 123. May not be taken concurrently.

327 (227). College Geometry I. Fall, Winter, Spring. (4 q. hrs.)

A review of elementary geometry. The foundations of geometry. Euclidean geometry from a modern point of view.

Prerequisite: Mathematics 134 and 225.

328 (228). College Geometry II. Fall, Winter, Spring. (4 q. hrs.)

A continuation of Mathematics 327. A formal development of Euclidean

geometry from a modern point of view. Selected topics in advanced Euclidean geometry.

Prerequisite: Mathematics 327.

340. Teaching Mathematics. Every quarter. (4 q. hrs.)

Methods and materials for teaching mathematics in grades 7-12. A study of the role of structure and of visual aids in the teaching of mathematics. Micro-teaching directed toward efficient teaching methods. Includes a survey of current literature as exhibited in textbooks and professional publications.

Prerequisite: Mathematics 225, 237, 327, 353, or permission of Department Head. Admission to teacher education and junior standing.

341. Teaching Secondary Mathematics. Winter, Spring. (2 q. hrs.)

The use of methods and materials for the teaching of mathematics in grades 9-12.

Prerequisite: Mathematics 237, 327, 353; or permission of instructor. Not open to students with credit in Mathematics 340 or to mathematics majors.

344. Linear Algebra. Every quarter. (4 q. hrs.)

The algebra of vectors and matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes.

Prerequisite: Mathematics 353 or permission of the instructor.

350. Differential Equations. Fall, Winter, Spring. (4 q. hrs.)

Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications.

Prerequisite: Mathematics 237.

351. Differential Equations. Winter and Spring. (4 q. hrs.)

Development of the theory and techniques associated with the linear differential equation; applications; existence theorems; systems of linear differential equations; methods of approximation.

Prerequisite: Mathematics 350.

353 (343), 354. Modern Algebra I and II. Every quarter. (4 q. hrs. for each course.)

The study of modern algebra including the topics: sets and relations; mappings and operations; number systems; groups; homomorphisms; rings; integral domains; fields; polynomials; direct product of groups; linear spaces.

Prerequisite: Mathematics 235. To be taken in sequence.

357. Numerical Calculus. (Omitted 1969-70.) (4 q. hrs.)

Construction of algorithms for interpolation, quadrature, solution of equations and systems, solution of ordinary differential equations.

Prerequisites: Mathematics 231 and 237.

391. Problems in the Teaching of Arithmetic. Offered on demand in extension. (4 q. hrs.)

Assigned readings, group discussions, and individual or group projects and reports.

Not open to mathematics majors.

- 392. Some New Units in Mathematics for the Upper Grades.** Offered on demand in extension. (4 q. hrs.)

A course based on units prepared by the School Mathematics Study Group for grades seven and eight.

Not open to mathematics majors.

- 393. Number and Operation.** Offered on demand in extension. (2 q. hrs.)

A study of the basic concepts of arithmetic from a modern point of view.

Not open to mathematics majors.

- 449. Mathematics Seminar.** (Omitted 1969-70.) (4 q. hrs.)

Study of special topics in mathematics from algebra, analysis, geometry, number theory and statistics.

Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 455. Linear Algebra II.** (Omitted 1969-70.) (4 q. hrs.)

Vector spaces, linear transformations, and dual spaces, invariant direct-sum decompositions, jordan form, inner product spaces.

Prerequisites: Mathematics 344, 353, or permission of instructor.

- 458. An Introduction to Differential Geometry.** (Omitted 1969-70.) (4 q. hrs.)

The Euclidean space—functions, transformations, differential fields and forms, and study of curves in Euclidean space.

Prerequisite: Mathematics 237.

- 460, 461. Advanced Calculus.** Every quarter. (4 q. hrs. for each course.)

An advanced study of limits, continuity and differentiability of functions; Riemann integrals; vectors and curves, functions of several variables; implicit functions; line and surface integrals.

Prerequisite: Mathematics 237. To be taken in sequence.

- 470, 471. Statistics.** Every quarter. (4 q. hrs. for each course.)

Probability; distributions; discrete and continuous random variables; sampling distributions; estimation and tests of hypotheses; regression and correlation; analysis of variance.

Prerequisite: Mathematics 236. To be taken in sequence.

- 480. Mathematics of Finance.** (Omitted 1969-70.) (4 q. hrs.)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131.

- 482. Algebra and Geometry II.** Summer, Spring. (4 q. hrs.)

The study of algebraic structure and informal geometry in elementary mathematics. Groups, rings, fields, probability sets, sets of points, lines, curves, the geometry of space, and methods of proof.

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 322, or permission of instructor.

490. History of Mathematics. Summer 1969. (4 q. hrs.)

Development of numeral systems; ancient Babylonian and Egyptian mathematics; Euclid's Elements; duplication, trisection, and quadrature problems; Hindu and Arabian contributions to mathematics; mathematics in the Dark Ages; origins of modern mathematics.

Prerequisite: Mathematics 134 or permission of instructor.

491. Number Theory. Summer. (4 q. hrs.)

Divisibility, primes, congruences, solution of congruences, prime modulus, primitive roots, quadratic residues and reciprocity, numerical functions, Diophantine equations.

Prerequisite: Mathematics 353.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. Numerical Analysis. (Omitted 1969-70.) (4 q. hrs.)

Rounding errors, difference equations, solutions of equations and systems of equations, interpolation, numerical differentiation.

Prerequisite: Mathematics 231 or 507; and Mathematics 350.

507. Digital Computer Techniques. Summer 1969. Winter. (4 q. hrs.)

Programming techniques using machine language, symbolic and automatic programming languages.

Prerequisite: Mathematics 237 or permission of the instructor.

508. Intermediate Computer Programming. Spring. (4 q. hrs.)

The structure and syntax of ALGOL. Selective topics in computer science.

Prerequisite: Mathematics 231, or Mathematics 507, or permission of the instructor.

510, 511, 512. Modern Algebra. Fall, Winter, Spring. (4 q. hrs. for each course.)

Groups. Rings. Fields. Galois theory.

Prerequisite: Mathematics 344 and 353 or permission of the instructor.

515. Probability. Fall. (4 q. hrs.)

Elementary and general probability spaces. Random variables and expectation.

Prerequisite: Mathematics 237.

516, 517. Mathematical Statistics. Winter, Spring. (4 q. hrs. for each course.)

Point estimation, testing statistical hypotheses, confidence intervals, regression, analysis of variance, nonparametric methods.

Prerequisites: Mathematics 515 or permission of the instructor; Mathematics 516 required for Mathematics 517.

520, 521. Higher Geometry. Winter; Spring. (4 q. hrs. for each course.)

A selection of topics from projective geometry, differential geometry, non-Euclidean geometries.

Prerequisite: Mathematics 344 or permission of the instructor.

522. Topology. Fall. (4 q. hrs.)

Metric spaces. Topological spaces. Connectedness. Compactness.

Prerequisite: Mathematics 460, or permission of the instructor.

530, 531, 532. Real Variables. (Omitted 1969-70.) (4 q. hrs. for each course.)

Set theory, Cardinal numbers. Real numbers. Measure. Measurable sets. Lebesgue and Riemann integrals. The fundamental theorem of the calculus.

Prerequisite: Mathematics 461, or permission of the instructor.

533, 534, 535. Complex Variables. Fall; Winter; Spring. (4 q. hrs. for each course.)

The complex plane and its subsets. Fractions, powers, roots, holomorphic functions. Power series. Complex integration. Representation of functions. The calculus of residues. Analytic continuation.

Prerequisite: Mathematics 461, or permission of the instructor.

540. The Teaching of Arithmetic in the Primary and Intermediate Grades. Summer. (4 q. hrs.)

The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six.

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 482 or permission of the instructor.

541. The Teaching of Mathematics in Grades 7, 8, and 9. Summer 1969. (4 q. hrs.)

The techniques, methods, and materials used in teaching mathematics in grades seven, eight, and nine.

545, 546, 547. Independent Study in Mathematics. Any quarter. (4 q. hrs. for each course.)

Advanced work on a topic or problem selected by the student, subject to the approval of his advisor.

Prerequisite: 12 q. hrs. of credit in graduate level mathematics.

550. Mathematics in Modern Education and Life. Spring and Summer. (4 q. hrs.)

The subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Problems in the Teaching of Secondary Mathematics. Summer 1970. (4 q. hrs.)

Recent curriculum advancements; study of topics selected from those proposed for study in secondary schools; effective teaching methods; assigned readings; reports.

595. Thesis. (4 q. hrs.)

610. Groups. (Omitted 1969-70.) (4 q. hrs.)

Preliminaries, abelian groups, P-groups, permutation groups, group extensions, representation theory.

Prerequisite: Mathematics 512.

611. Rings and Fields. (Omitted 1969-70.) (4 q. hrs.)

Field theory, galois theory, ideal theory, ring theory.

Prerequisite: Mathematics 610.

612. Topological Groups. (Omitted 1969-70.) (4 q. hrs.)

Topological groups, homomorphisms of topological groups, direct products, local properties of topological groups, locally compact topological groups.

Prerequisites: Mathematics 512 and 522.

620. Differential Geometry I. (Omitted 1969-70.) (4 q. hrs.)

The classical theory of curves and surfaces in three dimensional Euclidean space.

Prerequisite: Mathematics 237 and 344.

621. Differential Geometry II. (Omitted 1969-70.) (4 q. hrs.)

Introduction to the notions of differentiable manifolds and tensors. Application to the study of differential geometry of curves and surfaces. Introduction to Riemannian geometry of dimension 2. Application to non-Euclidean geometries.

Prerequisites: 350 and 620.

622. Introduction to Differentiable Manifolds. (Omitted 1969-70.) (4 q. hrs.)

Introduction to the notions of differentiable manifolds. Fiber bundles and lie groups.

Prerequisites: Mathematics 351, 522, and 621.

623. Algebraic Topology I. Fall. (4 q. hrs.)

Introduction to homology theory. Complexes, homology and cohomology groups, topological invariance of homology properties.

Prerequisites: Mathematics 510 and 522.

624. Algebraic Topology II. Winter. (4 q. hrs.)

Introduction to the homotopy theory. Manifolds, spheres, Poincare and Alexander. Duality theorems, the fundamental group, covering complexes.

Prerequisite: Mathematics 623.

PHILOSOPHY

Course Sequences

Philosophy 250 or Philosophy 301 are recommended as the most appropriate choice for students who elect a single course in philosophy. As introductory treatments of the techniques and issues of philosophic inquiry, Philosophy 250 focuses attention on representative problems without reference

to historical perspective, whereas Philosophy 301 explores a range of problems in an historical context. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

For students who may elect philosophy as their option to satisfy the humanities requirement, at least three approaches are feasible (depending on the student's interest): 1) Philosophy 250 and/or Philosophy 301 plus additional work in the History of Philosophy, 2) a sequence in the History of Philosophy beginning with Philosophy 301, and 3) a selection of courses including Philosophy 250, 270, and more advanced courses.

UNDERGRADUATE COURSES

250. Problems of Philosophy. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to philosophic inquiry presented through analysis of selected problems: Knowledge and Truth, the Individual and the State, the Right and the Good, the Interpretation of Religion, God and Nature, and Alternative World Views.

Prerequisite: Sophomore standing.

270. Logic. Fall, Winter, and Spring. (4 q. hrs.)

An introduction to the principles of sound reasoning and their application to effective communication: logic and language informal fallacies, definition; deductive and formal logic; empirical scientific method.

Prerequisite: Sophomore standing.

301. History of Philosophy: Ancient. Fall, Winter, and Spring. (4 q. hrs.)

An historical approach to questions pertaining to Man, God, the World, and Values in which the ideas of philosophers from the PreSocratics through Aristotle are examined.

Prerequisite: Junior standing.

305. History of Philosophy: Medieval. Winter. (4 q. hrs.)

An examination of the ideas of the principal philosophers from Epicurus through St. Thomas Aquinas. The foundations of Christianity and implications for philosophy and theology.

Prerequisite: Philosophy 250 or 301; junior standing.

306. History of Philosophy: Modern. Fall, Winter, and Spring. (4 q. hrs.)

An examination of philosophical inquiry from Galileo through Kant: The quest for certainty. The foundations of modern science and implications for religion, morals, and political theory.

Prerequisite: Philosophy 250 or 301; junior standing.

330. Social and Political Philosophy. Spring. (4 q. hrs.)

A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation. Special emphasis on major classical and contemporary theories of society and the state.

Prerequisite: Junior standing and at least four quarter hours in philosophy, or consent of the instructor.

360. Symbolic Logic. Fall. (4 q. hrs.)

An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus.

Prerequisite: Junior standing and Philosophy 270 or permission of the instructor.

380. Contemporary Philosophy: European. Spring. (4 q. hrs.)

A study of recent movements in European philosophy with emphasis on the development of Analytical Philosophy, Logical Positivism, Phenomenology, and Existentialism.

Prerequisite: Junior standing and at least four quarter hours in philosophy (Philosophy 306 recommended), or permission of the instructor.

381. American Philosophy. Winter. (4 q. hrs.)

A study of the development of American Philosophy with emphasis on the principal doctrines of the major philosophers from Jonathan Edwards to Whitehead.

Prerequisite: Junior standing and at least four quarter hours in philosophy (Philosophy 306 recommended), or permission of the instructor.

402. Ethics. Winter. (4 q. hrs.)

A systematic study of the principal types of ethical theory. A consideration of major issues in ethics: The Right and the Good, the nature and validity of moral standards, the problem of conduct, and free will.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

404. Aesthetics. Fall. (4 q. hrs.)

An analysis of the meaning and value of beauty in terms of an examination of the types, elements, and structure of aesthetic experience; a consideration of significant interpretations of beauty in art; and a critical study of aesthetic criteria.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

410. Philosophy of Religion. Winter. (4 q. hrs.)

A philosophical interpretation of the meaning of religion, the character of religious experience and fundamental problems such as the nature and existence of God, evil, immortality, religious knowledge, and the relation of religion to philosophy, theology, and science.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

415. Philosophy of History. Spring. (4 q. hrs.)

A critical analysis and evaluation of theories proposed by philosophers in their attempts to specify the nature of history and historical inquiry.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250 and Philosophy 301 or 306; or permission of the instructor.

420. Philosophy of Science. Fall. (4 q. hrs.)

A philosophical analysis of key concepts and presuppositions of the formal and physical sciences such as form, hypothesis, verification, causality, and law. The structure and philosophic implications of scientific methodology.

Prerequisite: Eight quarter hours in philosophy (Philosophy 270 and 306 recommended) or permission of the instructor.

430. Philosophy and Culture: Western. Winter. (4 q. hrs.)

An attempt to understand the character of Western civilization through an analysis of basic philosophical, scientific, religious, and aesthetic assumptions of the major cultures of the traditional Western world.

Prerequisite: At least eight quarter hours in philosophy or permission of the instructor.

431. Philosophy and Culture: Eastern. Spring. (4 q. hrs.)

An attempt to understand the character of Eastern civilization through an analysis of basic philosophical, religious, and aesthetic assumptions of the traditional Eastern world (India, China, and Japan). The problem of ideological conflict: East versus West.

Prerequisite: Philosophy 430 or permission of the instructor.

448. Independent Study. Spring. (4 q. hrs.)

Advanced study of selected problems, topics, or philosophers.

Prerequisite: At least sixteen quarter hours in philosophy and permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Philosophic Inquiry: An Adventure of Ideas. Summer. (4 q. hrs.)

An exploration of man's thinking about himself, God, the World and Values presented through an analysis of selected philosophers or schools of philosophy. This course is designed for the student with little or no previous training in philosophy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

PHYSICAL SCIENCE

Note: Physical Science 100 and 101 meet in two single periods and two double period laboratory sessions each week. These courses are restricted to students in curricula for elementary teachers and for junior high school teachers. Physical Science 100 and 101 may be taken in either order or simultaneously.

UNDERGRADUATE COURSES**100. Physical Science.** Every quarter. (4 q. hrs.)

Basic concepts of physical science are presented through study of topics selected from physics and astronomy.

101. Physical Science. Every quarter. (4 q. hrs.)

Principles of chemistry having particular application in the field of elementary education are presented.

Credit may not be accepted toward a degree for both Physical Science 101 and Chemistry 120.

340. Methods of Teaching Physical Sciences. Winter. (4 q. hrs.)

The presentation of science lessons and the examinations of current literature and new approaches to chemistry and physics.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Physical Science for Minors. Winter. (2 q. hrs.)

The presentation of science lessons as well as the examination of current literature and new approaches to teaching chemistry and physics.

Prerequisites: Admission to teacher education and junior standing. Enrollment restricted to minors in chemistry and physics who do not have credit for Physical Science 340, Geography 340, or Life Science 340.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

540. Special Problems in Physics Theory. Fall, Summer. (4 q. hrs.)

A special institute course covering both selected topics in modern physics and methodology in physics.

Prerequisite: Attendance at the 1969 Summer Institute in Physics for senior high school teachers.

PHYSICS

Note: All courses except where otherwise indicated in the course description have two lecture periods and two laboratory periods a week.

UNDERGRADUATE COURSES**060. Physics Institute Seminar.** Summer. (No credit.)

A series of lecture-seminars directed towards improving the high school physics course, increasing the enrollment in high school physics, and methodology in the physics classroom and laboratory.

Prerequisite: Attendance at the 1969 Summer Institute in Physics for senior high school teachers.

Note: Physics 110, 111, and 112 are intended for students desiring a

cultural exposure to physics but lacking the science and mathematics background for enrollment in the Physics 130, 131, 132 series. (Students with more extensive background should consider the latter sequence.) These courses satisfy the laboratory science requirement.

110. Basic Physics I. Fall. (4 q. hrs.)

Macroscopic universe; measurement and algebraic usage; mechanics; addition of force vectors; torques in equilibrium; free-fall and vehicular acceleration problems; Newton's 2nd Law problems.

111. Basic Physics II. Winter. (4 q. hrs.)

Space phenomena; work and energy; atomic structure; study of light.

Prerequisite: Physics 110 or permission of instructor.

Most of the content of Physics 110 and 111 is also covered in Physics 130 at a faster pace. Physics 110 and 111 could replace Physics 130 in the 130, 131, 132 sequence. Credit may not be accepted toward a degree for Physics 110, 111 and for 130.

112. Basic Physics III. Spring. (4 q. hrs.)

Relativity; electricity; electromagnetism.

Prerequisite: Physics 110 and 111 or permission of instructor.

120, 121, 122. Physics for Music Students. Fall, Winter, Spring.
(4 q. hrs. for each course.)

Physics 120, astronomy, mechanics, and heat; Physics 121, sound and acoustics as applied to music and speech correction; Physics 122, light, electricity, and modern physics. Enrollment limited to music and speech correction majors or minors.

130, 131, 132. First Year College Physics. Every quarter.
(4 q. hrs. for each course.)

Physics 130, mechanics; 131, electricity and magnetism; 132, kinetic theory and heat; special relativity; introduction to atomic and nuclear physics.

Acceptable as a year of laboratory science in any curriculum. Physics 130 is a prerequisite to Physics 131 and 132. Physics 131 and 132 may be taken concurrently.

212. Modern Physics. Summer. (4 q. hrs.)

A special institute course introducing concepts of special relativity, the particle aspects of EM radiation, the wave aspects of particles, the structure of the H-atom, many electron atoms and x-ray spectra. Lectures, demonstrations and problems will be used.

Prerequisite: Attendance at the 1969 Summer Institute in Physics for senior high school teachers.

236. Geometrical, Physical, and Quantum Optics. Fall and Spring. (4 q. hrs.)

This is a continuation of the first year college physics sequence. Simple harmonic motion; wave motion; geometrical optics; interference; diffraction; polarization; quantum optics.

Prerequisite: Physics 130 and 131.

Co-requisite: Mathematics 135 or permission of the instructor.

239. Mechanics. Fall and Winter. (4 q. hrs.)

Motion of a particle in one dimension; simple harmonic motion; line integral computation of work; vector analysis in various coordinate systems; conservative fields.

Prerequisite: First year college physics and Mathematics 235, co-requisite Mathematics 236. Four hours a week.

240. Mechanics. Winter and Spring. (4 q. hrs.)

Damped harmonic motion; forced harmonic oscillator; central force motion; gravitational potential; gravitational fields; accelerated coordinate systems; vibrating string.

Prerequisite: Physics 239. Four hours a week.

250. Electronics. Spring. (4 q. hrs.)

A study of the fundamentals of tube and transistor electronics. Emphasis is on amplifiers and the special circuits used in applied science, such as cathode followers, multivibrators and timing circuits. Four laboratory periods a week.

Prerequisite: First year college physics and Mathematics 135.

341. Electricity and Magnetism. Fall. (4 q. hrs.)

Coulomb's Law; vectors; electric field strength; potential; Gauss' Law; capacity; dielectrics; solutions of electrostatic problems; electrostatic energy; DC circuits and instruments.

Prerequisite: First year college physics and Mathematics 236. Four hours a week.

342. Electricity and Magnetism. Winter. (4 q. hrs.)

Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; electrical equipment; L, R and C circuits; Maxwell's Equations and radiation.

Prerequisite: Physics 341. Four hours a week.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**461, 462. Experimental Physics.** (Offered on demand.)

(4 q. hrs. for each course.)

Experiments from various phases of physics. Emphasis is placed upon selection of the experiment, planning the procedure, analyzing the results, and reporting. Four laboratory periods a week.

Prerequisite: Physics 466 and one year of calculus.

465. Heat and Thermodynamics. Spring. (4 q. hrs.)

Thermometry, thermodynamic laws; changes of phase; gas laws; mechanical relations and heat engines; adiabatic transformations; entropy, kinetic theory and statistical mechanics.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

466. Quantum Mechanics and Atomic Physics I. Spring.
(4 q. hrs.)

Atomic nature of matter, limitations of classical physics; Schrodinger equation, uncertainty principle; atomic spectroscopy, outer electrons. Three lecture periods and one three hour laboratory period per week.

Prerequisite: First year college physics and one year of calculus.

467. Quantum Mechanics and Atomic Physics II. Fall. (4 q. hrs.)

Exclusion principle; angular momentum; atomic spectroscopy, inner electrons; perturbation theory. Three lecture periods and one three hour laboratory period per week.

Prerequisite: Physics 466.

468. Nuclear Physics. Winter. (4 q. hrs.)

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models; nuclear detectors; nuclear accelerators; cosmic rays.

Prerequisite: Physics 466 or 467 or permission of the instructor. Four hours a week.

469. Solid State Physics. Spring. (4 q. hrs.)

Crystal structure; thermal properties of solids; dielectric and magnetic properties of solids; superconductivity; free electron theory of metals; band theory of metals; semiconductors and insulators; surface phenomena; imperfections in crystals.

Prerequisite: Physics 466 or 467 or permission of the instructor. Four hours a week.

480, 481. Independent Study. (Offered on demand.)
(4 q. hrs. for each course.)

Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: Permission of the instructor.

482. Problems in Physics. (Offered on demand.) (4 q. hrs.)

Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

With permission of department head and approval of Dean, College of Letters and Science, this course may be taken more than once.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

515. Mechanics. (Offered on demand.) (4 q. hrs.)

Generalized coordinates; normal coordinates; accelerated reference frames;

Euler's equations; moving coordinate systems; vibrating string; center of mass coordinates; fluids.

Prerequisite: Physics 240. Four hours a week.

520. Mathematical Physics. Fall. (4 q. hrs.)

Special differential equations; special functions; elements of complex integration; tensors; calculus of variations; eigen values and eigen functions; matrices and matrix algebra; numerical calculations.

Prerequisite: Physics 240 and 342. Four hours a week.

534. Theoretical Mechanics. Winter. (4 q. hrs.)

Vectors; laws of motion; particle statics and dynamics; central field motion; energy and momentum principles for a particle and for systems of particles; mechanics of a rigid body.

Prerequisite: Physics 240 or equivalent and Mathematics 351. Four hours a week.

535. Theoretical Mechanics. Spring. (4 q. hrs.)

Constrained motion, oscillatory motion; deformable bodies; fluid mechanics; generalized coordinates; Lagrange's equations; Hamilton's canonical equations.

Prerequisite: Physics 534. Four hours a week.

540. Electrodynamics. Fall. (4 q. hrs.)

Electrostatic; general methods of solving potential problems; boundary value problems; multipoles, dielectrics; magnetostatics.

Prerequisite: Physics 342. Four hours a week.

541. Electrodynamics. Winter. (4 q. hrs.)

Maxwell's equations; electromagnetic waves; wave guides and resonant cavities; radiation and diffraction; special theory of relativity.

Prerequisite: Physics 540. Four hours a week.

542. Electrodynamics. Spring. (4 q. hrs.)

Relativistic particle dynamics; collisions, energy loss and scattering; radiation by moving charges; multipole fields; radiation damping, self-fields, scattering and absorption.

Prerequisite: Physics 541. Four hours a week.

560. Quantum Mechanics. Fall. (4 q. hrs.)

A study of quantum eigen values and eigen functions of the Schrodinger equation for various central fields; angular momentum eigen functions; perturbations dependent on and independent of time.

Prerequisite: An undergraduate major in physics. Four hours a week.

561. Quantum Mechanics. Winter. (4 q. hrs.)

The quasi-classical case; spin and spinors; identify and exchange interaction of particles; the hydrogen atom and extension of the Schrodinger equation to other atoms and effects, the diatomic molecule and vibrational and rotational spectra; polyatomic molecules.

Prerequisite: Physics 560. Four hours a week.

562. Quantum Mechanics. Spring. (4 q. hrs.)

Elastic and inelastic collisions; Feynman notes; spin and statistics, relativity, Fermi coupling and the failure of parity; pion-nucleon coupling; strange particles; fundamental laws of electromagnetics and B-decay coupling.

Prerequisite: Physics 561. Four hours a week.

580. Independent Study in Physics. (Offered on demand.) (4 q. hrs.)

Selected problems based upon the student's background and interests. Laboratory, reading, conference, and oral reports.

Prerequisite: Permission of the instructor.

590. Mathematical Physics. (Offered on demand.) (4 q. hrs.)

Waves in an elastic medium; motion of fluids; scalar and vector fields and the variational principle; complex numbers and complex variables; Cauchy's Theorem; branch points and branch lines; Riemann surfaces; calculus of residues; gamma and elliptic functions; Fourier transforms; differential equations and separable coordinates; series solutions and the Wronskian; integral representations of differential equations.

Prerequisite: Physics 520. Four hours a week.

591. Mathematical Physics. (Offered on demand.) (4 q. hrs.)

Boundary conditions and eigen functions; Green's functions and generating functions; Green's functions for steady waves and for diffusion; integral equations of physics; kernels; Fredholm Equations; approximate methods; Laplace's and Poisson's Equations in two and three dimensions; integral and variational techniques for solving wave equations.

Prerequisite: Physics 590. Four hours a week.

595. Thesis. (4 q. hrs.)

POLITICAL SCIENCE

UNDERGRADUATE COURSES

100. Introduction to Political Science. Fall, Winter, and Spring. (4 q. hrs.)

Comparative analysis of the institutions and ideologies of contemporary democratic and authoritarian governments designed to provide a systematic overview of the field.

110. American National Government: Constitutional Foundations.

Fall, Winter, and Spring. (4 q. hrs.)

Fundamental principles of the American Constitutional system. A treatment of basic concepts of government; constitutionalism; federalism; civil liberties; citizenship; nominations, elections, and political parties.

111. American National Government: Policy Making and Administration.

Fall, Winter, and Spring. (4 q. hrs.)

Congress, the Presidency, bureaucrats, and the judiciary. National policies and administration in foreign affairs, defense, business regulation, agriculture, housing, education, etc.

Prerequisite: Political Science 100 or 110.

112. State and Local Government. Fall, Winter, and Spring. (4 q. hrs.)

Legal authority, structure, leadership and functions of state, county, and city governments. The Illinois State Constitution is analyzed.

Prerequisite: Political Science 100 or 110.

220. Introduction to International Relations. Fall. (4 q. hrs.)

An examination of the nature of the nation-state system and of the sources of conflict in the international community.

Prerequisite: Political Science 100 or 110 and 111 or consent of the instructor. Sophomore standing.

221. Comparative World Politics. Winter. (4 q. hrs.)

An analysis of world politics since World War II with attention given to the impact of continuing crises upon the policies of the major world powers.

Prerequisite: Political Science 100 or 110 and 111. Sophomore standing.

222. International Organization. Spring. (4 q. hrs.)

Development, scope, and functions of general international organization. Emphasis upon the United Nations system and regional organizations such as the European Economic Community.

Prerequisite: Political Science 220 or permission of the instructor. Sophomore standing.

330 (230). Comparative Governments: The United Kingdom. Fall.
(4 q. hrs.)

The political system of the United Kingdom of Great Britain and Northern Ireland with particular attention to the nature of the Constitution, the party system, Parliament, the Crown, and the Commonwealth of Nations.

Prerequisite: Political Science 100 or permission of the instructor.

331 (231). Comparative Governments: Western Europe. Winter.
(4 q. hrs.)

The political systems of France, West Germany, and/or other countries of Western Europe selected by the instructor.

Prerequisite: Political Science 100 or permission of the instructor.

332 (232). Comparative Governments: The U.S.S.R. Spring. (4 q. hrs.)

The political system of the Union of Soviet Socialist Republics; the role of the Communist Party, the nature of the constitutional system, and the evolution of Marxism-Leninism-Stalinism.

Prerequisite: Political Science 100 or permission of the instructor.

336. Governments of Asia. Fall. (4 q. hrs.)

The growth and development of political concepts and institutions in the three major powers of Asia—China, Japan, and India. Limited consideration of problem areas in other Asian states.

Prerequisite: Political Science 100 or permission of the instructor.

363, 364. Problems in State and Local Government. Fall.
(4 q. hrs. for each course.)

Case studies of selected problems. Individual student research on a current problem of state or local government.

Prerequisite: Political Science 112 or permission of the instructor.

356. Political Behavior. Winter. (4 q. hrs.)

Analysis of individual and group behavior in the political context with emphasis on the literature of current research in American political institutions and processes.

Prerequisite: Political Science 100, or 110, or permission of the instructor.

366 (466). Political Parties and Elections. Fall. (4 q. hrs.)

Political parties, party systems, policies, and electoral arrangement in the United States and abroad, with particular attention to the organization, functions, and methods of American political parties and to the interrelationships of electoral and party systems.

Prerequisite: Political Science 100, or 110, or permission of the instructor.

367. Interest Groups. Spring. (4 q. hrs.)

Analysis of the role and techniques of labor, business, agrarian, ethnic, and other groups in the political process. Emphasis on American groups and political institutions.

Prerequisite: Political Science 100, or 110, or permission of the instructor.

369. The Legislative Process. Spring. (4 q. hrs.)

A comprehensive examination of the institutional structures and functions of legislative bodies with emphasis on American examples.

Prerequisite: Political Science 100, or 110, or permission of the instructor.

370. American Foreign Policy. Spring. (4 q. hrs.)

A consideration of factors shaping contemporary American foreign policies. The conduction of American foreign relations and major problems of implementing American policy decisions are analyzed.

Prerequisite: Political Science 220, or 221, or 222, or permission of the instructor.

399. Summer Study in Ireland. Summer. (9 q. hrs.)

Independent research in political science. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. International Law. Spring. (4 q. hrs.)

The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government.

Prerequisite: Political Science 220, or 221, or 222.

451. The Supreme Court and the Federal System. Fall. (4 q. hrs.)

Supreme Court decisions on: Judicial Review, Federalism, Powers of Congress, Powers of the President, Contracts, Commerce and Taxation.

Prerequisite: Political Science 110, 111; or permission of the instructor.

452. The Supreme Court and Civil Rights. Winter. (4 q. hrs.)

The history, the present status and the future prospects of civil liberties as interpreted by the Supreme Court. The main emphasis is upon recent decisions of the Court on such topics as citizenship, speech, press, religion, Communism, race discrimination and criminal procedure.

Prerequisite: Political Science 110, 111, or permission of instructor.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

465. Public Administration. Winter. (4 q. hrs.)

Growth of public administration, the system of responsibility and accountability, relationship of administration and politics, technical aspects of administration, problems of administrative leadership and direction.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

480. Politics of the Emerging Nations. Fall. (4 q. hrs.)

A comparative survey of the politics, policies, and problems of the emerging nations in Africa, Asia, the Middle East, and Latin America.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

481. Latin American Government and Politics. Winter. (4 q. hrs.)

A systematic study of the formal structures of Latin-American governments with an analytical and interpretive examination of the political processes which underlie them.

Prerequisite: Twelve quarter hours in political science or Latin American Studies major, or permission of the instructor.

490. Political Theory: Ancient and Medieval. Fall. (4 q. hrs.)

The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

491. Political Theory: Renaissance and Modern. Winter. (4 q. hrs.)

A continuation of the study of political thought from the time of Niccolo Machiavelli through Karl Marx.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

492. Contemporary Political Theory. Spring. (4 q. hrs.)

Contemporary concepts in Western Political thought. Emphasis upon the

development of modern conservatism, liberalism, Marxism, and national socialism. Independent research interests encouraged.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

493. Latin American Political Theory. Spring. (4 q. hrs.)

Latin American political thought: its origins in Spain and Portugal; the colonial period and independence; the adaptations and changes under the republics; contemporary concepts.

Prerequisite: Twelve quarter hours in political science or Latin American Studies major, or permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500, 501. Administrative Internship. (4 q. hrs. for each course.)

Each student will serve as an intern in a federal, state, county, municipal or a party organization or agency appropriate to his area of concentration within the department's offerings. Weekly field reports and an end-of-term evaluation of the internship will be required.

521. Contemporary Problems in International Politics. Winter. (4 q. hrs.)

An analysis of the course of world politics since World War II with attention given to the impact of the continuing crisis upon the policies of the major powers. An extensive policy-planning paper will be prepared by each student with a consideration of methods used in analyzing international politics.

Prerequisite: Political Science 220, or permission of the instructor.

530. Readings in Comparative Government. Winter, Spring. (4 q. hrs.)

Reading and analysis of the recent literature of theory development and research findings in the comparative government area. Specific topics at the discretion of the instructor.

Prerequisite: Twelve quarter hours in comparative government or international relations, or permission of the instructor.

541. Community Political Systems. Fall. (4 q. hrs.)

An analysis of politics in terms of social, political, and psychological influences on decision-making processes at the level of local political communities in the United States.

Prerequisite: Political Science 364 or permission of the instructor.

550. The American Presidency. (Omitted 1969-70.) (4 q. hrs.)

Development, powers and limits of the American Presidency, with emphasis upon Presidential decision making.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

562. Problems in Municipal Government. (Omitted 1969-70.) (4 q. hrs.)

The political structure and administration of municipalities in the United States, including the legal position of the municipality, revenue problems, pressure groups, civil rights, planning, zoning, housing, welfare, and metropolitan government.

Prerequisite: Political Science 364 or permission of the instructor.

563. Seminar in Public Administration. Spring. (4 q. hrs.)

The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, financial administration, administrative law, and administrative responsibility.

Prerequisite: Political Science 465 or permission of the instructor.

564. Seminar, Problems in State and Local Government. Winter. (4 q. hrs.)

Research in selected problems in state and local government. Subjects considered vary from year to year depending upon the interests of the students and current developments in the area. Special attention is given to problems of Illinois state and local governments.

Prerequisite: Political Science 364 or permission of the instructor.

565. Seminar in Political Analysis. (Omitted 1969-70.) (4 q. hrs.)

An introduction to the problems involved in constructing and carrying out systematic research designs in the study of politics.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

570. Contemporary Constitutional Development. Spring. (4 q. hrs.)

Case-book approach to the study of the influence of the Supreme Court and development of constitutional law. Emphasis upon recent decisions of the Court.

Prerequisite: Political Science 451 or 452 or permission of the instructor.

595. Thesis. (4 q. hrs.)

PSYCHOLOGY

UNDERGRADUATE COURSES

231. Introduction to Psychology. Every quarter. (4 q. hrs.)

A survey of the methods, concepts and principles that have established psychology as a behavioral science. Topics include: development, learning, intelligence, motivation, personality, social problems, and others.

234. Advanced General Psychology. Every quarter. (4 q. hrs.)

A continuation of Psychology 231 with emphasis on a more detailed study of learning, perception, and motivation.

Prerequisite: Psychology 231.

261. Statistical Methods of Psychology. Fall, Winter, and Spring. (4 q. hrs.)

Application of statistical methods to behavioral data.

Prerequisite: Psychology 231. Not open to students who have taken or are enrolled in Mathematics 470 or 471.

281. Experimental Techniques I. Fall and Spring. (4 q. hrs.)

An introduction to the use of experimental methods in psychology with exercise in psychophysics, animal learning and verbal learning.

Prerequisite: Psychology 231, and 261 or permission of instructor.

282. Experimental Techniques II. Winter. (4 q. hrs.)

A continuation and expansion of Psychology 281.

Prerequisite: Psychology 231 and 281.

331. Physiological Psychology. Fall. (4 q. hrs.)

A survey of the physiological correlates of the psychological behavior in man and lower organisms.

Prerequisite: Psychology 231 and 281.

350. Developmental Psychology. Fall. (4 q. hrs.)

Methods of research in child development and the effects of biological, social, and psycho-social factors on normal and deviant behavior.

Prerequisite: Psychology 231.

351. Applied Psychology. Fall and Spring. (4 q. hrs.)

Psychological principles applied to the professions, industry, and retail business.

Prerequisite: Psychology 231.

352. Adolescent Psychology. Fall, Winter and Spring. (4 q. hrs.)

The psychology of the adolescent in relation to: family; friends; the opposite sex; delinquent behavior; growth and development; attitudes; interests; values.

Prerequisite: Psychology 231.

353. Industrial Psychology. Winter. (4 q. hrs.)

Applications of the methods and principles of psychology to industrial situations.

Prerequisite: Permission of the instructor.

359. Theories of Personality. Spring. (4 q. hrs.)

A comparison of the major theories of personality with emphasis on the methods used in theory validation.

Prerequisite: Psychology 231.

360. Psychological Measurements: Fundamental Principles. Winter, Spring and Summer. (4 q. hrs.)

Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests.

Prerequisite: Psychology 231.

361. Theories of Learning. Winter. (4 q. hrs.)

A survey and comparison of the theories of learning.

Prerequisite: Psychology 231 and 281.

- 390, 391, 392. **Independent Study in Psychology.** Every quarter.
(4 q. hrs. for each course.)

Advanced work on a topic selected by the student, subject to the approval of the instructor. Admission and assignment of problems by arrangement. Laboratory, reading, and weekly conference.

Prerequisite: Permission of the instructor.

425. **History and Systems of Psychology.** Fall. (4 q. hrs.)

A study of the history of psychology as an experimental science. A survey of contemporary systems of psychology based on experimental evidence and developed deductivity.

Prerequisite: Permission of the instructor.

447. **Social Psychology.** Winter, Spring, and Summer. (4 q. hrs.)

A study of individual behavior and psychological processes in the social and cultural setting, with emphasis on psychological studies and empirical research of social issues.

Prerequisite: Psychology 231.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Psychology of Exceptional Children.** Spring. (4 q. hrs.)

Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal.

Prerequisite: Psychology 231.

451. **Abnormal Psychology.** Winter, Spring, and Summer. (4 q. hrs.)

An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses, and psychosomatic disorders.

Prerequisite: Psychology 231.

452. **Psychological Measurements: Intelligence Testing.** Fall. (4 q. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231 and 360.

455. **Mental Hygiene.** Every quarter. (4 q. hrs.)

Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.

Prerequisite: Psychology 231.

RUSSIAN

(See Foreign Languages)

SOCIAL SCIENCE

UNDERGRADUATE COURSES

340. **Methods and Materials in the Social Studies in the Secondary School.** Fall, Winter, and Spring. (4 q. hrs.)

Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies. Analysis, evaluation, and application of methods. Techniques for appraising and selecting textbooks and other teaching aids.

Prerequisite: Admission to teacher education and junior standing.

- 440, 441. Contemporary Problems.** (Topics to be determined.) Summer.
(4 q. hrs. for each course.)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 461. Statistics and Research Techniques in the Behavioral Sciences.** Spring.
(4 q. hrs.)

Basic methods of statistical research; measures of central tendency; dispersion; normal and binomial distribution; correlation; influence sampling; polling and interviewing.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 540. Problems in Teaching Social Studies.** Offered on demand. (2, 3 or 4 q. hrs.)

Provides the student with the opportunity for intensive study of special problems and trends in the social studies curriculum and for development of improved teaching techniques.

Prerequisite: Teaching experience in the social studies or the permission of the instructor. May be taken more than once with permission of the division head.

SOCIOLOGY

UNDERGRADUATE COURSES

- 271. Principles of Sociology.** Every quarter. (4 q. hrs.)

A study of basic sociological concepts; social interaction and social processes; structural and functional analysis of social groups, institutions, and society; social stratification; and social change.

- 272. Social Problems and Social Trends.** Every quarter. (4 q. hrs.)

Analysis of the nature of social problems, theories, deviant behavior; social disorganization; adjustment mechanisms and social control.

Prerequisite: Sociology 271.

- 360. Introduction to Social Work.** Fall. (4 q. hrs.)

A survey of principles, techniques, and areas of social work.

Prerequisite: Sociology 271.

362. Demography. Winter. (4 q. hrs.)

A descriptive and theoretical analysis of the dynamics of population with emphasis on population trends.

Prerequisite: Sociology 271.

365. Social Systems and Social Roles. Spring. (4 q. hrs.)

Social psychological theories; social status and social roles; application of role theories in the study of socialization and personal adjustment; alienation and mental health; analysis of critical group situations and social change.

Prerequisite: Sociology 271.

366. The Sociology of Religion. (Omitted 1969-70.) (4 q. hrs.)

The development and function of religious groups and institutions; an analysis of the functional significance of beliefs and rituals of selected systems of religious thought.

Prerequisite: Sociology 271.

368. Public Opinion and Propaganda. Fall. (4 q. hrs.)

An analysis of the fundamentals of communication, the opinion making process, methods of opinion and attitude manipulation and measurement, and techniques of advertising and propaganda.

Prerequisite: Sociology 271.

370. Dynamics of Collective Behavior. (Omitted 1969-70.) (4 q. hrs.)

A variety of transitory phenomena, including publics, audiences, crowds, mobs, and riots, as well as social movements, will be analyzed in terms of social processes, social structure, and social function.

Prerequisite: Sociology 271.

380. The Sociology of Rural Life. (Omitted 1969-70.) (4 q. hrs.)

The rural way of life will be studied in terms of patterns of land settlement, social interaction, social structure, and social problems unique to the rural way of life.

Prerequisite: Sociology 271.

381. The Sociology of Urban Life. Spring. (4 q. hrs.)

A systematic study of the social structure and function of the modern city; urban planning and renewal as related to problems of ecology; growth and development of urban communities.

Prerequisite: Sociology 271.

399. Summer Study in Ireland. Summer. (9 q. hrs.)

Independent research in sociology. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

425. The Sociology of Education. Winter. (4 q. hrs.)

A sociological analysis of the structure and function of educational institutions. Emphasis on social processes, patterns, and trends.

Prerequisite: Sociology 271.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. The Development of Sociological Thought. Winter. (4 q. hrs.)

This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry.

Restricted to majors and minors in sociology and social science.

455. The Community. Fall. (4 q. hrs.)

Analysis of community structure and function, ecological patterns and processes, social problems, and community action techniques.

Prerequisite: Sociology 271 or permission of the instructor.

461. Statistics and Research Techniques in the Behavioral Sciences. Spring. (4 q. hrs.)

Programmed as Social Science 461.

470. Sociology of Medicine. Spring. (4 q. hrs.)

An analysis of the interrelationships between pathology and interpersonal relations as well as social structure and function.

Prerequisite: Sociology 271.

472. Social Stratification. Fall. (4 q. hrs.)

A descriptive and theoretical analysis of social stratification; study of the problems created by differential status, power, and social mobility.

Prerequisite: Sociology 271.

473. Marriage and the Family. Every quarter. (4 q. hrs.)

The historical background of the modern family; the impact of culture and social change on marriage and the family; personality factors involved in marriage; family disorganization.

Prerequisite: Sociology 271.

474. The Social Problems of Minority Groups. Winter. (4 q. hrs.)

A study of racial and cultural minorities; causes and consequences of prejudice and discrimination; institutional patterns of intergroup relations; and trends.

Prerequisite: Sociology 271 or permission of the instructor.

475. Crime and Juvenile Delinquency. Fall. (4 q. hrs.)

The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology and rehabilitation.

Prerequisite: Sociology 271.

490, 491. Individual Problems in Sociology. Spring. (4 q. hrs. for each course.)

Analysis of selected social problems with emphasis on sociological research techniques.

Restricted to majors in sociology and social science.

SPANISH

(See Foreign Languages)

SPEECH**UNDERGRADUATE COURSES**

101, 102, 103. Applied Forensics. Every quarter. (1 q. hr. for each course.)

Individual study and work in the various activities of the forensics program.

Prerequisite: Consent of the Department Head.

131. Speaking in Public. Every quarter. (4 q. hrs.)

Fundamental principles and methods of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view for constructive influence in speech situations.

140. Parliamentary Law. Every quarter. (1 q. hr.)

The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.

230. Persuasion. Fall, Winter, and Spring. (4 q. hrs.)

A study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion as means of influencing the beliefs and actions of other persons.

Prerequisite: Speech 131 or permission of Department Head.

232. Discussion. Fall, Winter, and Spring. (4 q. hrs.)

A study of the nature of discussion and bases of belief through lecture and class discussions in subject-problems, preparation, process, leadership techniques, participation, types and forms, and evaluation.

234 (332). Debate. Fall, Winter, Spring. (4 q. hrs.)

The study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation. Application of these principles in practice debates.

Prerequisite: Speech 131 or permission of Department Head.

252. Introduction to Mass Communication (Broadcasting). Fall. (4 q. hrs.)

A survey of the origin and growth of broadcasting, the social and legal bases of mass communication operations, and the physical nature of equipment of Radio, Television, and Motion Pictures.

301, 302, 303. Applied Forensics. (1 q. hr. for each course.)

Individual study and work in the various activities of the forensics program.

Prerequisite: Permission of the Department Head.

320. Speech Criticism. Fall. (4 q. hrs.)

A comparative study in which standards of judgment deriving from the

social interaction of a speech situation are applied to public addresses to determine the immediate or delayed effect of the speeches upon specific audiences, and ultimately, upon society.

Prerequisite: Speech 230.

330. Interview and Conference. Fall, Winter, Spring. (4 q. hrs.)

The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and inter-personal situations.

Prerequisite: Speech 131.

340. Teaching Speech. Fall, Spring. (4 q. hrs.)

A study of essential considerations in speech education; problems, methods and materials in teaching basic skills; teaching and directing co-curricular activities.

Prerequisite: Twenty quarter hours in speech. Admission to teacher education and junior standing.

352. Radio Production. Winter. (4 q. hrs.)

A study of the equipment and techniques involved in producing radio programs. Problems in announcing, scripting, writing, and producing radio programs. Students direct and edit radio exercises.

354. Television Production. Spring. (4 q. hrs.)

The study and practice of adapting demonstrative, documentary and dramatic communications to the television medium. Class exercises using studio TV equipment and lecture.

400. Independent Study. Every quarter. (4 q. hrs.)

The consideration of special problems in speech and speech education. Student presents individual study plan and does intensive research on topics dealing with history, theory, and/or practice of oral communication.

Prerequisite: Permission of Department Head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. Advanced Theory of Mass Communications. Spring. (4 q. hrs.)

A survey of legal precedents which constitute broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research dealing with all mass communication.

453. General Semantics. Fall, Winter, Spring. (4 q. hrs.)

Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

470. Psychology of Speech. Fall. (4 q. hrs.)

A study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; individual and group communication; personality and speech.

480. Contemporary American Public Address. Winter. (4 q. hrs.)

A study of competing points of view on a series of critical issues of the twentieth century.

490. Directing Forensic Activities. Winter. (4 q. hrs.)

The course is designed to prepare those entering the field of speech education on the secondary and college levels to direct an extra-curricular forensics program.

Prerequisite: Speech 232 and 234.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Problems in Speech. Every quarter. (4 q. hrs.)

The study of and reports on a specific problem in speech. Student presents an individual study plan and does intensive research on a topic dealing with the history, theory, and/or practice of Speech.

532 (471). Background of Rhetoric. Spring. (4 q. hrs.)

A survey of Classical, Medieval, and Renaissance Theories of Rhetoric including the works of Plato, Aristotle, Cicero, Quintilian, Augustine, Ramus, Sherry, Wilson, Cox, and others.

540 (472). American Public Address. Spring. (4 q. hrs.)

A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.

541. American Public Address. Fall. (4 q. hrs.)

A study of public speaking in America from 1850 through the early twentieth century.

555. Research in Speech. Fall. (4 q. hrs.)

An introduction to research methods, bibliographical resources, and professional writing in the field of speech.

560. Deliberation of Human Problems. Spring. (4 q. hrs.)

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems.

562. Modern Rhetorical Theory. Winter. (4 q. hrs.)

A survey of theories of rhetoric from the eighteenth century to the present. Attention is given to the works of Ward, Blair, Campbell, Whatley, Adams, Austin, Curry, Burke, Flesch, Hall, Hefferline, Schramm, Weiner, Richards, Winans, Woolbert, Brigance, and others.

572. British Public Address. Winter. (4 q. hrs.)

A study of twelve selected British public speakers with emphasis upon

their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

595. Thesis. (4-8 q. hrs.)

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

091. **Communication I for International Students.** Offered upon demand.
(No credit.)

An intermediate course dealing with oral communication problems of international students. Emphasis is on speech intelligibility and listening comprehension. Particular attention to the phonological, syntactical and semantic bases of oral communication. Specific assignments are individualized to meet students' needs.

Prerequisite: Permission of instructor.

092. **Communication II for International Students.** Offered upon demand.
(No credit.)

An intermediate course dealing with written communication problems of international students. Emphasis on reading and writing skills. Particular attention to processing visual symbol systems. Course assignments adapted to meet needs of students.

Prerequisite: Michigan Test of English Language Proficiency and permission of instructor.

093. **Communication III for International Students.** Offered upon demand.
(No credit.)

An advanced course dealing with oral and written communication problems of international students. Particular attention to establishing minimum proficiency in language skills necessary to profit from academic instruction in basic English and speech courses. Classroom assignments will be individualized.

Prerequisite: Michigan Test of English Language Proficiency and permission of instructor.

254. **Structure and Function of the Speech and Hearing Mechanics.** Fall.
(4 q. hrs.)

Organization and functioning of the speech and hearing mechanisms; basic neurologic, anatomical and physiologic concepts. Students observe speech and hearing therapy.

255. **Voice Science.** Winter. (4 q. hrs.)

Applies basic acoustical and physiological information to normal speech production. Emphasis is on normal production and control of the speech sounds and voice: pitch, loudness, quality, and rate. Students observe therapy.

260. **Speech Pathology.** Spring and Summer. (4 q. hrs.)

A study of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders; a brief description of the treatment of these disorders.

262. Childhood Development of Speech. Spring. (4 q. hrs.)

Growth and development of speech in children from birth to about seven years of age; special emphasis upon the developmental stages and factors influencing the acquisition of speech.

263 (451). Evaluation and Therapy. Spring. (4 q. hrs.)

Training in specific diagnostic techniques for speech disorders; planning specific therapy techniques. Students observe therapy.

Prerequisite: Speech Pathology and Audiology 260.

362. Language Disorders. Fall. (4 q. hrs.)

Study of causal factors, evaluation, and therapy for children with language disorders associated with developmental delay, central nervous system involvements, and cultural deprivation.

Prerequisites: 260, 262, 263, or permission of the instructor.

402 (452). Voice and Articulation Disorders. Fall. (4 q. hrs.)

Nature, causes and treatment of voice and articulation disorders.

Prerequisite: Speech Pathology and Audiology 260, 263.

403 (453). Stuttering. Winter. (4 q. hrs.)

Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated.

Prerequisite: Speech Pathology and Audiology 260, 263.

405 (455). Audiometry and Hearing Aids. Fall. (4 q. hrs.)

Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests.

Prerequisite: Speech Pathology and Audiology 260, 263.

406 (456). Audiology. Winter. (4 q. hrs.)

Speech and psychological problems of the deaf and hard of hearing; techniques in lip reading and speech rehabilitation.

Prerequisite: Speech Pathology and Audiology 260, 263, 405.

408 (458). Organic Disorders of Speech. Spring. (4 q. hrs.)

Etiology and therapy for organic disorders of speech; cleft palate, cerebral palsy, aphasia, and laryngectomy.

Prerequisite: Speech Pathology and Audiology 260, 263, 402.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**457. Clinical Practice.** Every quarter. (1-4 q. hrs.)

Experience in organizing and conducting speech and hearing surveys; supervised work with a variety of speech and hearing defects.

A student may receive credit for one to four hours during any quarter provided he spends in clinic work thirty clock hours per quarter hour's credit.

Prerequisite: Speech Pathology and Audiology 260, 263.

459. Speech Correction Practice in the School Situation. (Offered on demand.) (4 q. hrs.)

Speech correction in a school situation; in the campus elementary school or in nearby public schools.

Prerequisite: Speech Pathology and Audiology 260, 263, 402, 403, 405, 406, 408.

460. Speech Correction for the Classroom Teacher. Spring. (4 q. hrs.)

Provides the classroom teacher with necessary insights into child with defective speech. Course content includes classification, incidence prevention, and classroom management of defective speech and nature of speech correction services.

495, 496. Independent Study. Upon demand. (4 q. hrs. for each course.)

Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing therapy.

Prerequisite: Permission of the instructor and the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

561. Introduction to Graduate Study in Speech Pathology and Audiology. Fall and Summer. (4 q. hrs.)

To orient the new graduate student to the nature, purposes, and methods of advanced study with emphasis on understanding of individual research and study.

Prerequisite: Permission of instructor.

562. Articulation Disorders. Fall. (4 q. hrs.)

Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and therapy are stressed.

Prerequisite: Speech Pathology and Audiology 402.

563. Stuttering. Fall. (4 q. hrs.)

Advanced study of the problem; integration of prominent theories and therapies in stuttering; analysis of significant findings and trends in research on stuttering.

Prerequisite: Speech Pathology and Audiology 403.

564. Voice Disorders. Winter. (4 q. hrs.)

Advanced study of etiology and therapy for functional and organic voice problems. Voice pitch, quality, and intensity.

Prerequisite: Speech Pathology and Audiology 402.

565. Audiometry. Fall. (4 q. hrs.)

Students develop advanced proficiency in the assessment of hearing losses.

Emphasis is placed on a functional test battery, analysis of diagnostic problems and procedures, hearing aid selection.

Prerequisite: Speech Pathology and Audiology 405.

566. Aural Rehabilitation. Spring. (4 q. hrs.)

Advanced study of rehabilitation for the hard-of-hearing.

Prerequisite: Speech Pathology and Audiology 406, 565.

567. Advanced Clinical Practice. Every quarter. (1-4 q. hrs.)

Supervised corrective work with clients with speech and/or hearing defects. Special efforts are made to provide each student with the kinds of clinical therapy experiences he has not met previously.

Prerequisite: Speech Pathology and Audiology 457.

568. Organic Speech Disorders. Winter. (4 q. hrs.)

Advanced study of cleft palate and cerebral palsy in children and adults; etiology, diagnosis, and therapy.

Prerequisite: Speech Pathology and Audiology 408 or permission of the instructor.

569. Speech Correction Problems in the Schools. (Offered on demand.) (4 q. hrs.)

Problems in speech therapy with school age children. Special emphasis is placed upon an understanding of the function of the speech correctionist employed in the public school.

Prerequisite: Speech Pathology and Audiology 260, Education 441, 442, 443, or permission of the instructor.

570. Research Procedures in Speech Science. Winter. (4 q. hrs.)

Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology.

Prerequisite: Speech Pathology and Audiology 561.

572. Language Disturbances. Spring. (4 q. hrs.)

Language patterns of children and adults with oral communication impairments. Special emphasis is placed on the diagnostic and therapeutic procedures.

Prerequisite: Speech Pathology and Audiology 260, 262, 408, Psychology 452, or permission of the instructor.

575, 576. Independent Study. Every quarter. (4 q. hrs. for each course.)

Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing therapy.

Prerequisite: Permission of the instructor and the department head.

595. Thesis. Every quarter. (4 q. hrs.)

THEATRE ARTS**UNDERGRADUATE COURSES****132. Voice and Phonetics.** Every quarter. (4 q. hrs.)

A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.

133. Beginning Interpretation. Every quarter. (4 q. hrs.)

Designed to introduce the student to the study of literature through the medium of oral performance, where the medium is itself a process of defining.

240. Introduction to the Theatre. Every quarter. (4 q. hrs.)

A general introduction to theatrical and dramatic art. Emphasis is on providing the student with the tools of analysis which will give him insight into the total imaginative process that makes up the art of the theatre.

244. Acting. Fall and Winter. (4 q. hrs.)

A study of the methods of learning and teaching techniques for the actor, including definite exercises and a practical approach to the art of acting. Meets four double periods per week.

May not register concurrently in Theatre Arts 445.

257. Technical Direction. Winter and Spring. (4 q. hrs.)

Consideration of the elements of technical theatre direction; construction and painting of scenery properties; theory and technique of stage lighting. Meets four double periods per week.

281. Summer Theatre. Summer. (8-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in theatre arts. Credit for 8 or 12 quarter hours may be earned in one summer.

333. Advanced Interpretation. Fall, Spring. (4 q. hrs.)

Interpretation of literature in traditional and experimental styles. Introduction to the aesthetics of Readers and Chamber Theatre.

Prerequisite: Theatre Arts 133 or permission of the instructor.

357. Scene Design. Fall. (4 q. hrs.)

Step by step consideration of the design sequence from analysis of the script to the completion of production drawings; weekly design projects; familiarization with the forms and styles of scenery; practical experience. Meets four double periods per week.

Prerequisite: Theatre Arts 257, or permission of the instructor.

358. Design and History of Costume. Spring. (4 q. hrs.)

History of Costume from the early Egyptians to the present day. Costume design for theatrical productions. Meets four double periods per week.

431. Children's Dramatics. Winter. (4 q. hrs.)

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

445. Directing. Fall and Winter. (4 q. hrs.)

The study and actual production of the play. Central emphasis is placed on directing. Meets four double periods per week.

May not register concurrently in Theatre Arts 244.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**473. Theatre History.** Fall. (4 q. hrs.)

A survey of theatrical history from its beginnings to the present.

481. Summer Theatre. Summer. (8-12 q. hrs.)

The courses are designed to give practical, comprehensive experience in dramatic art. Credit for 8 or 12 quarter hours may be earned in one summer. Eight hours may be applied to a master's degree.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

563. History of Dramatic Art. Fall. (4 q. hrs.)

Consideration of the staging of plays from the Greek theatre to the present, with emphasis on adaptation of techniques to school play production. Projects in planning productions under various conditions.

595. Thesis. (4 q. hrs.)**ZOOLOGY****UNDERGRADUATE COURSES**

Classes in all courses except Zoology 520 and 521 meet in two single sessions and two double sessions each week.

101. General Zoology. Every quarter. (4 q. hrs.)

A study of tissues, organs, systems, physiology, reproduction and embryonic development, followed by a survey of the animal kingdom.

Prerequisite: Life Science 100 or equivalent.

212. Vertebrate Zoology. Every quarter. (4 q. hrs.)

A study of the natural history of vertebrates with emphasis on Midwestern forms, including distribution, feeding habits, reproduction, economic importance, and classification.

Prerequisite: One course in zoology.

214. Comparative Anatomy of Vertebrates. Fall and Summer. (4 q. hrs.)

A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms.

Prerequisite: Two courses in zoology.

215. Embryology. Winter and Summer. (4 q. hrs.)

The development of vertebrate animals, including formation of germ cells,

maturation, fertilization, growth, cellular differentiation, and heredity. Laboratory studies of the frog, chick and pig. Lectures include human embryology.

Prerequisite: 12 q. hrs. of zoology.

225. Anatomy. Every quarter. (4 q. hrs.)

A study of osteology from human bones, followed by dissection of the cat. Primary emphasis on muscles with the specific object of understanding general body movement.

Prerequisite: None; however, two courses in biological science and sophomore standing are desirable.

327. Parasitology. Fall and Summer. (4 q. hrs.)

The study of animal parasites, means of identification, life histories, and methods of control of the more common parasites, including those of man.

Prerequisite: Two courses in zoology.

336. Genetics. Fall, Spring, and Summer. (4 q. hrs.)

A study of the basic laws of heredity and variation; laboratory experiments demonstrating the mechanisms of heredity; cytogenetics and the modern concept of gene action.

Prerequisite: Junior standing or 20 q. hrs. of biological science.

338. Elementary Entomology. Fall, Summer. (4 q. hrs.)

A study of insects common in the local environment. Means of recognition and life-history studies are stressed.

Prerequisite: Two courses in biological science. Open only to elementary education majors.

341, 342. Independent Study. Any quarter. (4 q. hrs. for each course.)

Designed to meet the needs of individual students who wish to do advanced work in some field of zoology.

Prerequisite: 20 q. hrs. of zoology and the permission of the department head.

343, 344, 345. Entomology. 343, Fall and Summer; 344, Winter; 345, Spring. (4 q. hrs. for each course.)

A study of insects. Deals with the morphology, classification, ecology and economic importance of this large class. Methods of collection and preparation of specimens are included.

Prerequisite: 12 q. hrs. of zoology; Zoology 343 is prerequisite for 344 or 345.

346. Economic Entomology. Spring. (4 q. hrs.)

A basic study of the structure, life histories and methods of control, followed by specific studies of the common insect pests found in Illinois.

Prerequisite: Zoology 343 or equivalent.

347. Fisheries Biology. Fall and Summer. (4 q. hrs.)

The fundamentals of the study of the anatomy, classification, life histories and conservation of fish. Field work and study of local fish are stressed.

Prerequisite: 12 q. hrs. of zoology.

348. Human Physiology. Every quarter. (4 q. hrs.)

A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration and digestion.

Prerequisite: One course in zoology.

349. Human Physiology. Spring. (4 q. hrs.)

A continuation of the foregoing course in which studies are made of metabolism, excretory system, endocrine glands, integumentary system, special sense organs, and reproductive organs.

Prerequisite: Zoology 348, or permission of instructor.

350. Principles of Physiology. Winter, Spring and Summer. (4 q. hrs.)

A study of basic principles underlying the functions of protoplasm and organ systems.

Prerequisite: One course in zoology. Majors and minors should have completed chemistry requirement.

399. Summer Study in Ireland. Summer. (9 q. hrs.)

Independent research in zoology. Six weeks of residence in the Republic of Ireland will be required. Participant and project must be approved by departmental committee.

Open to juniors and seniors.

445. Cytology and Histology. Fall, Spring and Summer. (4 q. hrs.)

The microscopic structures and functions of cytoplasmic, nuclear and membrane components of cells, and a detailed study of tissues.

Prerequisite: 12 q. hrs. of zoology. Organic Chemistry recommended.

449. Studies in Zoology. Spring. (2 q. hrs.)

A seminar in current zoological literature.

Prerequisite: 12 q. hrs. of zoology.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**451. Microtechnique.** Winter and Spring. (4 q. hrs.)

Methods and practice in the preparation of microscope slides of animal tissues. A suitable collection of slides may be made for later use in teaching.

Prerequisite: 24 q. hrs. of zoology.

452. Animal Behavior. Spring. (4 q. hrs.)

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: 24 q. hrs. of zoology or permission of the instructor.

453. Animal Ecology. Spring and Summer. (4 q. hrs.)

Interrelations between animals and their physical and biotic environments; biotic communities; population changes; succession; geographic distribution; adaptations. Laboratory work is done largely in the field.

Prerequisite: 24 q. hrs. of zoology, or equivalent and permission of the instructor.

454. Animal Histology. Spring and Summer. (4 q. hrs.)

A microscopic study of animal tissues and organs and their origins and functions; advanced microscopic techniques.

Prerequisite: Zoology 451 or permission of the instructor.

455. Ornithology. Spring and Summer. (4 q. hrs.)

A study of the life histories, adaptations, and structure of birds, Special emphasis upon migration, songs, nests and economic importance of our native birds.

Prerequisite: 12 q. hrs. of zoology; Zoology 212 recommended.

456. Field Zoology. Spring and Summer. (4 q. hrs.)

An intensive course in the classification and natural history of animal life indigenous to this region, exclusive of insects and birds.

Prerequisite: 24 q. hrs. of zoology or equivalent; Zoology 460 recommended.

457. Wildlife Management. Fall. (4 q. hrs.)

A study of the principles of wildlife management with emphasis on terrestrial game animals and related species; their ecology, life histories and conservation.

Prerequisite: 12 q. hrs. of zoology including Zoology 212 or equivalent; Zoology 453 and 455 recommended.

460. Invertebrate Zoology. Spring. (4 q. hrs.)

This course deals comprehensively with the phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals.

Prerequisite: 24 q. hrs. of zoology.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. History of Biology. Winter. (4 q. hrs.)

A survey of the development of biological sciences from pre-history to the present. Contributions by various civilizations will be covered up to the Renaissance. After that era the development of specific fields (anatomy, genetics, etc.) will be considered.

Prerequisite: 24 q. hrs. of biological science.

521. Organic Evolution. Winter. (4 q. hrs.)

The principles of, and evidence for organic evolution; history of the development of theories, and of scientists concerned with the subject.

Prerequisite: A minor or the equivalent in zoology.

525. Protozoology. Fall and Summer. (4 q. hrs.)

The morphology, physiology, ecology and life histories of free-living and parasitic protozoa. Includes laboratory and field studies.

Prerequisite: 12 q. hrs. of zoology and 12 q. hrs. of chemistry.

550. Ornithology. Summer 1970. (4 q. hrs.)

This course includes the study of structure, habits, life histories, migrations, identification, and conservation of birds. There is both field and laboratory work.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Local Fauna. Summer 1969. (4 q. hrs.)

A course in local fauna designed to acquaint the student with the animal life of this area. Methods of collecting, preserving and identifying animals are stressed. Includes a study of the habits and life histories of selected forms.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555, 556, 557, 558. Advanced Zoology. Any quarter.

(4 q. hrs. for each course.)

Courses designed to meet the needs of individual students who wish to do advanced work in some special field of Zoology.

Prerequisite: A minor in zoology or the permission of the department head.

560. Advanced Systematics. Winter. (4 q. hrs.)

A study of the methods and principles of animal taxonomy, including speciation and zoogeography.

Prerequisite: A minor or the equivalent in zoology.

561. Endocrinology. Spring. (4 q. hrs.)

A study of the endocrine glands, the action of hormones, and the general features of the endocrine system.

Prerequisite: A minor or the equivalent in zoology, and at least one course in organic chemistry.

595. Thesis. (4 q. hrs.)

**FACULTY FOR
PROFESSIONAL
EDUCATION**

EDUCATION

UNDERGRADUATE COURSES

120, 121. Laboratory in Education. Every quarter. (1 q. hr. for each.)

A laboratory course with emphasis on directed observations and individualized experiences with children of pre-school, elementary and junior high school ages under a variety of environmental conditions.

Required of and restricted to freshmen and transfer students in the elementary and junior high school education curricula. 120a and 121a reserved for junior high school majors.

232. Human Growth, Development, and Learning. Every quarter. (4 q. hrs.)

Physical, social, emotional, and intellectual growth and development of children and early adolescents.

Prerequisite: Psychology 231. Restricted to students in elementary, junior high, and dietetics curricula.

311. Directing Learning in the Junior High School. Fall and Spring.
(4 q. hrs.)

The functions of the junior high school and its relation to the selection, organization, presentation and evaluation of learning experiences; classroom management; guidance; and teacher relationship to the staff, home, and community.

Prerequisite: Education 232 and admission to teacher education.

312. Instructional Media in the Junior High School. Fall, Winter and Spring.
(4 q. hrs.)

Reading instruction in the junior high school with emphasis on trends, materials, techniques, and evaluation. General introduction to instructional materials in the classroom. Information, sources, and use of instructional materials and equipment.

Prerequisite: Education 232 and admission to teacher education.

313. Teaching Social Studies and Language Arts in the Junior High School. Winter and Spring. (4 q. hrs.)

The objectives of social studies and language arts programs exclusive of reading; the nature, selection, and utilization of materials, methods, and content with emphasis upon integration of the two areas.

Prerequisite: Junior standing; Education 311 and admission to teacher education.

314. Teaching Mathematics and Science in the Junior High School. Winter.
(4 q. hrs.)

The nature and scope of materials and methods in teaching mathematics and science, with concern for the possibilities of correlation of the two areas.

Prerequisite: Junior standing; Education 311 and admission to teacher education.

324. Directing Learning in the Elementary School. Every quarter. (4 q. hrs.)

Selection, organization, presentation of learning experiences; emphasis on

application of principles of learning, instructional programs, classroom management, guidance, evaluation and audio-visual equipment; teacher relationship to staff, home, community, and the profession.

Prerequisite to student teaching. Prerequisite: Junior standing; Education 232 and admission to teacher education.

326. Child Development for the Nursery-Kindergarten Teacher. (Omitted 1969-70.) (4 q. hrs.)

A study of the development of children from 3 to 6 as influenced by the impact of such factors as: physical, social, emotional and intellectual growth, family and cultural influences, and the role of classroom environment.

Prerequisite: Education 232 and admission to teacher education.

327. Teaching Social Studies and Language Arts; Use of Instructional Materials in the Elementary School. Every quarter. (4 q. hrs.)

Objectives, techniques, and materials of social studies and language arts excluding reading and children's literature; patterns of curriculum organization, unit teaching, selection and utilization of instructional materials and equipment; instruction in handwriting.

Prerequisite: Education 324 and admission to teacher education.

328. Developmental Reading in the Elementary School. Every quarter. (4 q. hrs.)

Basal reading program from kindergarten through junior high school; nature, purpose, and current trends in reading instruction; types of reading materials, techniques and evaluation.

Prerequisite: Education 324 and admission to teacher education.

329. Science in the Elementary School. Every quarter. (4 q. hrs.)

Selection and development of units, demonstrations, and laboratory work.

Prerequisite: Eight q. hrs. in biological science; Physical Science 100, 101; Education 324; admission to teacher education.

332. Educational Psychology. Every quarter. (4 q. hrs.)

Individual growth and development with emphasis upon the secondary student, learning theories and ways of facilitating the learning process, measurement and evaluation with emphasis upon standardized testing.

Prerequisite: Junior standing; Psychology 231 and admission to teacher education.

333. The Instructional Task in the Secondary School. Every quarter. (4 q. hrs.)

Teaching the utilization and selection of study skills and instructional materials; general methods—planning, classroom control, guidance, evaluation—and current curricular trends in secondary schools.

Prerequisite: Education 332 and admission to teacher education.

426. (334). Kindergarten Education. Fall, Winter and Spring. (4 q. hrs.)

Aims, organization, equipment and curriculum for nursery school and

kindergarten, including recent trends and techniques. Prerequisite to teaching practicum in kindergarten.

Prerequisite: Education 324 and admission to teacher education.

441, 442, 443, 444. Teaching Practicum in the Elementary or Secondary School. Every quarter. (4 q. hrs. for each course.)

Twelve quarter hours of the teaching practicum are required for the Bachelor of Science in Education degree. Major in secondary school curricula must take at least 4 quarter hours, preferably 8 quarter hours, of teaching practicum in major field.

Prerequisite: See Admission to Teaching Practicum.

445. Philosophy and History of Education. Every quarter. (4 q. hrs.)

The chronological development of the main philosophical principles of modern educational practices.

Prerequisite: Admission to teacher education. Not open to students who have credit in Education 343 or 440.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Studies in Education. Fall. (4 q. hrs.)

Concerned with specific problems in the evolution of secondary education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.

Prerequisite: Twelve quarter hours in education and psychology.

464. History of Education in the United States. Fall. (4 q. hrs.)

The colonial roots of pluralism; the single-track system; expansion of institutions and enrollments; and modern cross-currents.

Prerequisite: American history. Admission to teacher education.

471. Teaching of Social Living in the Elementary School. (Omitted 1969-70.) (4 q. hrs.)

A course in methods and materials related to teaching social living. Designed to aid teachers, supervisors, and administrators in understanding the role of history, civics, geography, and the natural sciences as interacting factors in solving social problems.

Prerequisite: Twelve quarter hours in education and psychology.

477. The Junior High School. Winter. (4 q. hrs.)

Study of historical development, basic philosophy, and current practices, problems, and trends in the junior high school.

Prerequisite: Education 232 and admission to teacher education.

485. School Law. Summer, Winter. (4 q. hrs.)

A course designed to develop an understanding of the basic legal factors related to the school.

Prerequisite: Twelve quarter hours in education and psychology.

- 487. Introduction to Audio-Visual Education.** Fall, Spring, Summer.
(4 q. hrs.)

Theory and principles for use of audio-visual materials in teaching. Experiences are provided in the operation, selection, and utilization of audio-visual aids.

Prerequisite: Twelve quarter hours in education and psychology.

- 488. Preparation and Use of Instructional Materials.** Winter, Summer 1969.
(4 q. hrs.)

Production of locally prepared audio-visual materials using the techniques of mounting, lettering, and reproducing by pictorial or graphic means. Emphasis is upon improving communication in the learning process.

Prerequisite: Twelve quarter hours in education and psychology.

- 490. Principles and Techniques of Guidance.** Fall, Winter, Summer.
(4 q. hrs.)

An introductory course; principles and purposes underlying guidance activities; means by which guidance activities may be carried on in the school system.

Prerequisite: Twelve quarter hours in education and psychology.

- 491. Guidance in the Elementary School.** Fall, Summer. (4 q. hrs.)

A study of principles and techniques of guidance services in the elementary school.

Prerequisites: 16 q. hrs. of education and psychology.

- 495. The Mentally Handicapped Child.** Every quarter. (4 q. hrs.)

A study of the characteristics of mentally handicapped children.

Prerequisites: Admission to teacher education, Education 232 or an acceptable substitute.

- 496. Educational Procedures for Educable Mentally Handicapped Children.**
Every quarter. (4 q. hrs.)

Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children.

Prerequisite: Education 495 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 520. Television in Education.** Summer. (4 q. hrs.)

Methods and techniques of television production, direction, and operation of equipment. Both open circuit and closed-circuit television are covered. Although the approach is mainly to television use in education, it is applicable to commercial television. (No substitute course may be used.)

521. Audio-Visual Systems. Spring. (4 q. hrs.)

Theory and principles in use of various systems such as teaching machines and programmed learning, filmed courses, taped courses, language laboratory programs. Emphasis is on the position of these systems in the curriculum and their influence on the curriculum and the teaching-learning situation.

522 (484). Photography in Audio-Visual Education. Fall, Summer.
(4 q. hrs.)

Photographic techniques for making materials for use in classroom instruction, community resources and school public relations. Emphasis will be upon obtaining materials for prints, color slides and large transparencies to be used in the classroom.

Prerequisite: Permission of the instructor.

523. Organization and Supervision of Audio-Visual Programs. Winter.
(4 q. hrs.)

The problems of organizing and supervising all the common educational media in the individual school, district, county and/or university are considered. Major emphasis is on television, films, various forms of graphics, programmed instruction, recordings, etc.

527. Reading Instruction in the Junior and Senior High School. Summer 1969.
(4 q. hrs.)

A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs.

Prerequisite: 16 quarter hours of education and psychology.

528 (469). Problems in the Teaching of Reading. Fall, Spring, Summer.
(4 q. hrs.)

A study of the types and causes of reading difficulty; methods of diagnosis and remedial work useful to classroom teachers, remedial reading teachers and supervisors.

Prerequisite: Sixteen quarter hours in education and psychology, including Education 328.

540 (459). Advanced Educational Psychology. Summer, Winter, Spring.
(4 q. hrs.)

Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Twelve quarter hours in education and psychology.

541, 542. Educable Mentally Handicapped Practicum. Fall, Winter, Spring.
(4 or 8 q. hrs.)

Supervised practicum with pupils who are designated as educable mentally handicapped.

Prerequisite: Education 496.

543. Measurement and Evaluation. (Omitted 1969-70.) (4 q. hrs.)

Nature and use of standardized tests. Sources of test information, statistical concepts and devices used in measurement of achievement, evaluation of

reliability and validity data and the interpretation of scores and profiles. Test planning, item construction and analysis assignment of marks.

Prerequisite: Eight q. hrs. in human growth and development, and/or psychology.

544. Educational Statistics. (Omitted 1969-70.) (4 q. hrs.)

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology.

549. Special Educational Problems. (On demand.) (1-4 q. hrs.)

Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature.

Prerequisite: Permission of the instructor.

550. Principles of Curriculum Development. Every quarter. (4 q. hrs.)

Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

551. Social Foundations of Education. Fall, Summer. (4 q. hrs.)

The school in society; effects of cultural patterns, social classes, community organizations, and some social problems.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

552. Understanding the Individual. Every quarter. (4 q. hrs.)

Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality.

Prerequisite: Twelve quarter hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.

553. Philosophy of Education. Winter, Summer. (4 q. hrs.)

A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

554. History of Educational Thought. Spring, Summer. (4 q. hrs.)

Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

558. Child Study for the Elementary School Teacher. Spring and Summer. (4 q. hrs.)

A study of the behavior of children as influenced by the impact of factors:

physical, family relationships, cultural, social concepts (self), school experiences. Various child study techniques employed in gathering and handling child data for child study problems in the classroom.

Prerequisite: Education 232 or equivalent. 16 q. hrs. in education and child psychology. Limited to experienced teachers working with children.

559. Seminar in Nursery-Kindergarten Education. Summer 1969. (4 q. hrs.)

An analysis of curriculum issues and problems in nursery-kindergarten education. Each student will select a problem or project as a major center of interest.

Prerequisite: Teaching experience and permission of the instructor.

560. Introduction to Research in Education. Every quarter. (4 q. hrs.)

Gives experiences in locating and defining problems, in using research techniques, in writing in acceptable form, and interpreting and evaluating research.

Prerequisite: Sixteen quarter hours of education and psychology.

561. Advanced Developmental Reading. Fall. (4 q. hrs.)

A study of the educational and psychological backgrounds of reading instruction. Emphasis is placed upon the nature of the reading instruction, programs of instruction, and methods and materials.

Prerequisite: Education 328 or equivalent.

562. Remedial Reading Practicum. Spring, Summer. (4-8 q. hrs.)

Supervised practice in working with individual students in remedial reading situations. Practice will be provided using students from the laboratory school or from schools of the surrounding area.

Prerequisite: Education 528 and permission of instructor.

563. Supervision and Curriculum in Reading. Summer 1969, Winter, Spring. (4 q. hrs.)

A study of selected curriculae and the planning of a sound school curriculum in reading; an understanding of the functions and duties of the reading supervisor or consultant and the effective ways of implementing them.

Prerequisite: Eight quarter hours in reading instruction.

564. Teaching and Supervision of Social Studies in Elementary Schools. Fall. (4 q. hrs.)

A study of the objectives, the scope and sequence of content in teaching social studies in elementary schools. Consideration is given to methods and techniques used in providing for individual differences through the effective use of concrete experience, audio-visual materials, group dynamics, reading, and evaluation.

565 (470). Language Arts in the Elementary School. Winter, Summer. (4 q. hrs.)

A critical review of objectives proposed for language arts instruction (exclusive of reading and children's literature) with emphasis on the implications concerning organization of the program, content, materials, and procedures.

Prerequisite: Twelve quarter hours in education and psychology.

566. The Science Curriculum in the Elementary School. Spring and Summer. (4 q. hrs.)

A course to help the elementary teacher, the elementary supervisor, and the elementary principal improve the elementary science curriculum. Scope and sequence of elementary school science; revision of existing curricula; selection of materials for teaching the revised elementary science curricula.

Prerequisite: Eight q. hrs. of biological science, eight q. hrs. of physical science, and Education 329 or permission of the instructor and the Dean of the Graduate School.

567. Advanced Laboratory in Elementary Education. (Omitted 1969-70.) (4-8 q. hrs.)

A course designed for the study of educational problems, new trends and developments in areas of curriculum instructional materials, methods, techniques, using observations and demonstrations in the Laboratory School with analysis of instructional media and pertinent published research.

Prerequisite: Eight q. hrs. in graduate courses in elementary education.

568. Guiding Student Teaching. Summer. (4 q. hrs.)

Theories, training programs and practices, and research findings in the field of teacher education with a major emphasis upon professional laboratory experiences. Limited to prospective college supervising teachers, coordinators, and co-operating teachers actively engaged in student teaching programs.

569. Seminar in Elementary Science Education. Summer 1969.

An analysis of problems and trends in elementary and junior high science education. Student selection of problems with approval of the instructor.

Prerequisite: Education 566 or permission of the instructor.

570. Psycho-Social Development in Childhood. Spring. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours of education and psychology.

571. Psycho-Social Development of the Adolescent and Young Adult. Fall, Summer. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours of education and psychology.

572. Measurement Applied to Guidance. Fall, Winter, Summer. (4 q. hrs.)

A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques suitable for use in guidance programs.

Prerequisite: Sixteen quarter hours of education and psychology.

573. Play Therapy. Spring, Summer. (4 q. hrs.)

The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.

Prerequisite: Education 574 and 593.

574. Personality Dynamics. Fall, Spring, Summer. (4 q. hrs.)

A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation.

Prerequisite: Sixteen quarter hours of education and psychology.

576. Student Personnel Work in Higher Education. Winter. (4 q. hrs.)

A study of the backgrounds of personnel functions in higher education including specific reference to such problems as admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Education 590.

577. Residence Hall Personnel Work. Spring. (4 q. hrs.)

A study of the functions of persons charged with managing and supervising university residence halls including administrative, business, counseling, and teaching duties.

Prerequisite: Education 490.

578. Theories of Aptitudes and Abilities. (Omitted 1969-70.) (4 q. hrs.)

A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior.

Prerequisite: Education 592 or permission of department.

579. Individual Study in Education. (On demand.) (2 or 4 q. hrs.)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Education 590. Permission of the department.

580 (480). School Organization and Administration. Fall, Summer.
(4 q. hrs.)

Educational administration in social and historical perspective; authentication and application of principles of administration.

Prerequisite: Twelve quarter hours in education and psychology.

581. School Supervision—A Group Process. Fall, Spring, Summer.
(4 q. hrs.)

Origin and development of the supervisory function. The roles of teachers, supervisors, and administrators in the practical application of theories of supervision.

Prerequisite: Education 550.

583. Administration and Supervision of the Elementary School.
Spring and Summer, 1970. (4 q. hrs.)

Develops, for the student planning to enter a career in elementary school administration or supervision, an understanding of the interrelationship of pupils, staff and patrons. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisites: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

584. Administration and Supervision of the Secondary School. Spring and Summer 1970. (4 q. hrs.)

Develops for the student planning to enter a career in secondary school administration, an understanding of the role of the principal of the secondary school. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisites: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

585. School Plant Planning. Winter, Summer. (4 q. hrs.)

Concepts and procedures for relating proposed school plants to the instructional program and community resources. Site selection, financing, legal requirements and the administration of the building program.

Prerequisite: Education 580 or equivalent.

586. School Finance. Spring, Summer. (4 q. hrs.)

A study of the legal basis for the support of public school, school revenues, and the expenditures of school funds, and an introduction to the concepts which underlie the accounting required for such funds.

Prerequisite: Education 580 or equivalent.

587. Personnel Administration: Teacher-Administrator Relationships.

Fall, Summer. (4 q. hrs.)

Principles and practices of personnel administration in educational institutions.

Prerequisites: Education 580 or its equivalent.

588. School Business Administration. Winter. (4 q. hrs.)

A study of the principles of financial management as they relate to the administration of funds in the operation of public education at the local level.

Prerequisite: Education 586 or equivalent.

589 (489). Seminar in Audio-Visual Education. Winter, Summer. (4 q. hrs.)

Special study on problems of production, administration and utilization of audio-visual materials in schools.

Prerequisite: Education 487, Education 488 or equivalent.

590. Current Practices and Problems in Counseling. Winter, Spring, Summer. (4 q. hrs.)

A course in theory and practices of counseling with emphasis upon the duties of the school counselor.

Prerequisite: Education 490.

591. Organization and Administration of Guidance and Personnel Services. Spring, Summer. (4 q. hrs.)

Principles and current trends in organization and administration of school guidance programs; types of organizations, public relations, integration of guidance services and curriculum.

Prerequisite: Education 490.

592. Occupational, Educational, Personal, and Social Information. Winter, Summer. (4 q. hrs.)

A study of sources, evaluation, and use of occupational, educational, personal, and social information. Employment conditions, job requirements and training facilities.

Prerequisite: Education 490.

593. Counseling Practicum. Every quarter. (4 q. hrs.)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest.

Prerequisite: Education 590, 592.

594. Principles and Techniques of Group Guidance. Spring, Summer. (4 q. hrs.)

A study of the principles and their application in the area of group guidance including techniques of group discussion, sociometrics, and role-playing.

Prerequisite: Education 590.

595. Thesis. (4 q. hrs.)

596. The Junior College Movement. Fall, Summer. (4 q. hrs.)

The junior college in the United States with attention to problems of philosophy, curriculum, and operation of junior colleges in Illinois.

Prerequisite: Sixteen quarter hours of education and psychology.

597. Seminar in Guidance. Winter. (4 q. hrs.)

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Education 590 and 592.

598. Practicum in Student Personnel Work in Higher Education. Spring. (4 or 8 q. hrs.)

Supervised practice in various functions of student personnel work according to the student's background and preferences. Experience will be accompanied by seminar discussions and reports.

Prerequisite: Education 576.

600. Problems in School Administration. Winter, Summer. (4 q. hrs.)

An advanced seminar in problems of significance to educational administration.

Prerequisite: At least twelve quarter hours in administration and supervision plus completion of Group I courses.

601, 602. The Field Experience in Administration. Every quarter. (4 q. hrs. for each course.)

The field experience is designed to provide a comprehensive experience planned by the student's committee and the supervising administrator. Evaluation and supervision is the responsibility of the advisor.

Prerequisite: Admission to Candidacy for the degree Ed.S. and approval of the department.

603. Seminar: Theory and Research in Educational Administration. Fall.
(4 q. hrs.)

Presents the development of theories of administration in general and theories of educational administration in particular. A scientific and logical study of administrative performance and leadership behavior.

Prerequisites: Education 560 and Education 580 or equivalent plus the consent of the instructor.

604. Seminar: Interdisciplinary Approach to Educational Administration.
On demand. (4 q. hrs.)

Examines the contributions of the Behavioral Science and the Humanities to the study and practice of Educational Administration. Provides an opportunity to integrate material derived from related area courses.

Prerequisites: Admission to Ed.S. Program and completion of at least 12 quarter hours in related academic disciplines. Permission of the instructor.

609. Administration in Higher Education. Fall. (4 q. hrs.)

A study of the scope, nature, and function of administration in higher education.

Prerequisites: Equipment of the master's degree and/or permission of the department.

690. Field Study in Guidance. (Internship.) Every quarter. (4-8 q. hrs.)

Supervised experience in all services normally considered a part of the guidance program.

Prerequisite: Education 593 and approval of the department.

SCHOOL OF BUSINESS

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ACCOUNTING**230. Principles of Accounting I.** Every quarter. (4 q. hrs.)

An introduction to the basic concepts of accounting and uses of accounting information.

Not open to freshmen.

231. Principles of Accounting II. Every quarter. (4 q. hrs.)

A continuation of Accounting 230. Introduction to accounting concepts, systems and controls. Partnership and corporation accounting.

Prerequisite: Accounting 230.

232. Principles of Accounting III. Every quarter. (4 q. hrs.)

Specialized accounting problems. Includes cost, budgeting and statement analysis. Accounting from the managerial point of view.

Prerequisite: Accounting 231.

354. Intermediate Accounting I. Fall and Winter. (4 q. hrs.)

Review of fundamental processes on a higher level with additions not covered in beginning accounting; cash and temporary investments, receivables, inventories, current liabilities, investments, plant and equipment.

Prerequisite: Accounting 232.

355. Intermediate Accounting II. Winter and Spring. (4 q. hrs.)

Accounting for long-term debt, stockholders' equity, and intangible assets. Interpretation and analysis of financial statements. Financial data adjusted for price-level changes. Funds-flow and cash-flow reporting.

Prerequisite: Accounting 232.

356. Advanced Accounting Problems I. Spring. (4 q. hrs.)

Special accounting problems related to partnerships, corporate business combinations, consignment and installment sales, and governmental units.

Prerequisite: Accounting 354, 355.

357. Advanced Accounting Problems II. Spring. (4 q. hrs.)

Special accounting problems related to joint ventures, branches and agencies, receivership and liquidation, estates and trusts, compound interest, and additional problems in corporate business combinations.

Prerequisites: Accounting 354, 355.

360. Cost Accounting. Fall, Winter. (4 q. hrs.)

An introduction to the usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis.

Prerequisite: Accounting 232.

363. Accounting for Management. Winter, Spring. (4 q. hrs.)

Fundamental accounting concepts and techniques for planning and control.

Prerequisite: Accounting 232. Not open to accounting majors.

490. Internship in Accounting. Arr. (4 q. hrs.)

Employment experience in public, industrial or governmental accounting, for one quarter, in a firm approved by the Head of the Department of Accounting.

Prerequisite: Permission of the Head of the Department of Accounting and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Accounting Systems.** Winter. (4 q. hrs.)

An introduction to basic concepts and standards of accounting system design. The methodology of system design and installation, including the adaptation of accounting devices and equipment. Human factors and problems in systems work and application of scientific methods to systems problems.

Prerequisite: Accounting 360 or 363 or equivalent.

454. Budget Planning and Control. Spring. (4 q. hrs.)

Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Application of concepts and techniques to a comprehensive budget program. Performance reports and analysis as a tool for communication. Budget planning and control in non-profit institutions.

Prerequisite: Accounting 232 or permission of the Head of the Department of Accounting.

461. Federal Income Tax Accounting. Fall, Winter. (4 q. hrs.)

The fundamentals of Federal Income Tax Accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and broad outlines of federal income taxation for individuals. Preparation of individual returns.

Prerequisite: Accounting 232.

462. Managerial Accounting. Fall, Spring. (4 q. hrs.)

An analysis of internal accounting data simulated by means of a case approach.

Prerequisite: Accounting 360 or 363.

464. Auditing Theory and Practice. Fall, Winter. (4 q. hrs.)

The examination and verification of accounting for the purpose of establishing the reliability of financial statements. Deals with the nature and application of auditing standards and procedures.

Prerequisite: Accounting 354, 355, and permission of the instructor.

466. Advanced Federal Income Tax Problems and Research. Spring.
(4 q. hrs.)

Emphasis on partnership, corporation, fiduciary tax problems. Consideration given to gift, estate, inheritance taxes. Corporate tax case research and report preparation.

Prerequisite: Accounting 461.

467 (447). C.P.A. Problems I. Fall. (4 q. hrs.)

Application of accounting principles to problems of a professional level. Analysis and study of representative problems from C.P.A. examinations.

Prerequisite: Accounting 356.

468 (448). C.P.A. Problems II. Spring. (4 q. hrs.)

A continuation of Accounting 467.

Prerequisite: Accounting 356.

469 (444). Advanced Auditing Theory and Practice. Spring. (4 q. hrs.)

Theory and application of advanced techniques, special reports, ethics, legal responsibility, and their relation to the auditing standards.

Prerequisite: Accounting 464.

498. Independent Study. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature in accounting in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the Head of the Department of Accounting.

BUSINESS EDUCATION AND SECRETARIAL STUDIES**110. Typewriting. Every quarter. (4 q. hrs.)**

Beginning touch typing instruction with emphasis on proper stroking, machine manipulation and placement of material. Minimum speed requirement: twenty-five gross words a minute for three minutes with nine errors or less.

No credit toward graduation for students who have had equivalent of one semester of typewriting instruction.

111. Typewriting, Continued. Every quarter. (4 q. hrs.)

Development of skill in machine operation and typing of personal letters, business letters, simple manuscripts and tabulations. Minimum speed requirement: thirty words a minute for five minutes with five errors or less.

Prerequisite: Business Education 110 or equivalent. Not open to students who have had equivalent of two semesters of typewriting instruction.

112. Typewriting, Continued. Every quarter. (4 q. hrs.)

Business communications problems: typewritten letters, reports, manuscripts, tabulations. Minimum speed requirement: thirty-five gross words a minute for five minutes with five errors or less.

Prerequisite: Business Education 111 or equivalent. Not open to students who have had equivalent of three semesters of typewriting instruction.

123. Shorthand. Fall, Winter. (4 q. hrs.)

Beginning instruction in Gregg Shorthand, Diamond Jubilee Series. Principles, brief forms, and phrasing.

Not open to students who have had equivalent of one semester of shorthand instruction.

124. Shorthand, Continued. Winter, Spring. (4 q. hrs.)

Review of the principles of the system, brief forms, and phrasing. Dictation from familiar material using Gregg Shorthand, Diamond Jubilee Series.

Prerequisite: Business Education 123 or equivalent. Not open to students who have had equivalent of two semesters of shorthand instruction.

125. Shorthand, Continued. Fall, Spring. (4 q. hrs.)

Vocabulary building. Introduction to transcription. Dictation from new material prepares the student for taking dictation in the business office.

Prerequisite: Business Education 124 or equivalent. Not open to students who have had equivalent of two semesters of shorthand instruction.

140. Business Mathematics. (Omitted 1969-70.) (4 q. hrs.)

Applications of arithmetic in the business world, percentage in business, elementary algebra in business, interest, basic problems in business ownership, installment buying, and statistics in business.

210. Advanced Typewriting. Every quarter. (4 q. hrs.)

Remedial and advanced training in speed and accuracy. Study of advanced office projects. Minimum speed requirement: forty net words a minute for five minutes with five errors or less.

Prerequisite: Business Education 112 or equivalent.

211. Advanced Typewriting, Continued. Winter, Spring. (4 q. hrs.)

Speed and accuracy in the production of typed materials that meet rigorous business requirements. Minimum speed requirement: fifty net words a minute for five minutes with three errors or less.

Prerequisite: Business Education 210 or equivalent.

223. Advanced Shorthand. Fall, Winter. (4 q. hrs.)

Transcription of business letters from dictated notes. Development of comprehensive vocabulary and ability to take dictation. Minimum speed requirement: eighty words a minute transcribed at not less than fifteen words a minute with 98 per cent accuracy.

Prerequisite: Business Education 125 or equivalent and Business Education 112 or equivalent.

224. Advanced Shorthand, Continued. Winter, Spring. (4 q. hrs.)

Rapid note taking, accurate transcription, and mailable copies are stressed. Minimum speed requirement: one hundred words a minute transcribed at not less than twenty words a minute with 98 per cent accuracy.

Prerequisite: Business Education 223 or equivalent.

225. Secretarial Practice. Spring. (4 q. hrs.)

Professional secretarial levels in taking dictation and transcribing. The role of the secretary in business and the professions. Minimum speed requirement: one hundred twenty words a minute transcribed at not less than twenty-five words a minute with 98 per cent accuracy.

Prerequisite: Business Education 224 or equivalent and Business Education 210 or equivalent.

312 (212). Office Machines. Every quarter. (4 q. hrs.)

Familiarization with the function, use, and operation of adding and calculating machines, key-punch unit, tabulating-posting machine, voice-writing equipment, and duplicating devices.

Prerequisite: Business Education 111 or permission of the instructor and junior standing.

340. Methods of Teaching Bookkeeping and the Basic Business Subjects. Fall, Spring. (4 q. hrs.)

A study of the curricular patterns in the bookkeeping and nonskill subjects in business education. Professional status of the business teacher, specific teaching methods, content, textbooks and teaching materials, and audio-visual aids.

Prerequisite: Admission to teacher education and junior standing.

342 (472). Methods of Teaching Shorthand and Transcription.

Winter, Spring, and Summer. (4 q. hrs.)

Texts, audio-visuals aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education and junior standing.

344 (473). Methods of Teaching Typewriting and Office Practice.

Fall, Winter, and Summer. (4 q. hrs.)

Texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education and junior standing.

440. Supervised Experiences in School Business Management. Arr. (4 q. hrs.)

School business is studied under the direction and supervision of a school business manager.

Prerequisite: Permission of Department Head.

490. Internship in Vocational Business Education. Arr. (4 q. hrs.)

Employment experience appropriate to qualify for certification by the State Office for Vocational and Technical Education under the provisions of the Vocational Education Act of 1963. Individuals are expected to secure employment for a minimum of 180 hours during the quarter in a firm approved by the instructor. A training memorandum and approval prior to enrollment is required.

Prerequisite: Permission of the Head of the Department of Business Education and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Office Management.** Spring. (4 q. hrs.)

Duties and responsibilities of the office manager: selection, training, pay and promotion of office employees; controlling office expense; flow of work; purchase and use of office equipment; physical factors; report writing.

492. Organization and Operation of Vocational Business Education Programs. Fall. (4 q. hrs.)

Deals with the organization and operation of vocational office and distributive education programs under the provisions of the Vocational Education Act of 1963. Qualifies for vocational certification by the State Office for Vocational and Technical Education.

Prerequisite: Permission of Head of the Department of Business Education.

493. Teaching Techniques in Vocational Business Education. Winter. (4 q. hrs.)

Specific techniques of counselling, teaching, and supervision as required in teaching classwork and supervising classroom vocational projects and part-time work experience. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of Head of the Department of Business Education.

494. Coordination Techniques in Vocational Business Education. Spring, Summer 1969. (4 q. hrs.)

Study of the duties and responsibilities of the Office Occupations and Distributive Education Coordinator, including establishment of training programs, supervision of trainees on the job, development of individual training programs, establishing working relationships between school, business, and home. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of the Head of the Department of Business Education.

498. Independent Study. Arr. (4 q. hrs.)

The student will be assigned material from literature of his major field selected in cooperation with the instructor. A written formal report based on these readings is required. Those seeking certification as in-school vocational teacher may elect an approved research project as specified under one of the State of Illinois options for occupational experience requirements.

Prerequisite: Senior or graduate standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Business Education.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Theoretical Issues in Accounting. Summer 1970. (4 q. hrs.)

An analysis of accounting concepts, viewed in an ideal framework.

513. Contemporary Issues in Marketing. Summer 1971. (4 q. hrs.)

Current issues involved in the delivery of a standard of living. Reading and reporting on the literature of the field will be expected.

516. Contemporary Issues in Management. Summer 1969. (4 q. hrs.)

An investigation of the contemporary issues in management. Current problems in the various areas of management and a study of new management techniques.

519. Foundations of American Business. Summer 1969. (4 q. hrs.)

The historical development of American business and industry. The evolution of business practices and principles.

520. Practicum in Data Processing. Summer 1969. (4 q. hrs.)

The nature and function of modern, high speed information handling equipment. Includes unit record and electronic computers. Problems on the equipment, with special emphasis on the development of teaching materials.

Not open to students with credit in Management 330 or 331.

570 (544). Foundations in Business Education. Summer 1970. (4 q. hrs.)

The evolution of the business curriculum; large and small high schools. Philosophies and objectives of business education are appraised in terms of business occupational requirements.

572 (545). Problems in Business Education. Summer 1969. (4 q. hrs.)

Current business education problems, such as supervision, administration, curriculum, equipment, standards, viewpoints of national leaders; problems growing out of the particular needs and interests of the students.

573 (543). Measurement and Evaluation in Business Education.

Spring, Summer 1971. (4 q. hrs.)

Evaluation and development of guidance materials in business education. Testing techniques and the construction of tests, statistical procedures necessary for test interpretation and use.

574. Improvement of Instruction in Bookkeeping and the General Business Subjects. Summer 1969. (4 q. hrs.)

An examination of methods and techniques in the teaching of bookkeeping, record keeping, and general business courses. Development of materials for use in teaching these subjects. Contributions of research and needed research are considered.

576. Improvement of Instruction in Shorthand and Secretarial Skills.

Fall, Summer 1971. (4 q. hrs.)

To acquaint business teachers with current problems and methods in teaching shorthand and secretarial skill courses. The contributions of research, approaches to needed research, and research methods. Examination of modern instructional media.

578. Improvement of Instruction in Typewriting and Office Practice.

Winter, Summer 1970. (4 q. hrs.)

To acquaint business teachers with current problems and methods in teaching typewriter-related skills and activities. The contributions of research, and research methods. Examination of modern instructional media.

595. Thesis. Arranged. (4 q. hrs.)

Study and investigation in business education for students electing Plan A for the degree, Master of Science in Education.

MANAGEMENT**141. Business Correspondence. Every quarter. (4 q. hrs.)**

The construction of effective letters; application letters, sales letters, credit letters, collection letters, adjustment letters, form letters. Practice in writing these letters.

Prerequisite: Business Education 110 or equivalent.

142. Introduction to Business. Every quarter. (4 q. hrs.)

The American business scene; business and society; the nature of business; production, distribution, finance; the business manager as a directing force, his obligations and objectives; career opportunities in business.

230 (330). Data Processing for Business. Every quarter. (4 q. hrs.)

The nature and function of modern, high speed information handling (data processing) equipment. Includes punched card units and high speed electronic computers with stored program capabilities. Problems on the computers.

Prerequisite: Sophomore standing.

231. Computer Programming for Business. Every quarter. (4 q. hrs.)

An extension of the study of the programming language used in Management 230. A comparative study of several high-level programming languages is undertaken and other software systems and their applications are investigated. Problems and related business applications are programmed.

Prerequisite: Management 230.

251 (351). Principles of Management. Every quarter. (4 q. hrs.)

Fundamentals of management; objectives, policies, functions, executive leadership, organization structure and morale; operational procedure and control.

331. Data Processing Systems for Business. Every quarter. (4 q. hrs.)

The structure and development of manual, mechanical, and electronic information handling systems. Unit record and computer systems. Basic operational procedures plus the analysis and design of new systems.

Prerequisite: Management 230.

332. Computer File Organization and Management Methods.

Winter and Summer. (4 q. hrs.)

A study of the common data base system used with modern computer systems. It includes an examination of file organization, linking, maintenance, searching, retrieval, and security. Selected general purpose processors are discussed as tools for data base management.

Prerequisite: Management 230 and junior standing.

333. Real-Time Business Systems. Spring. (4 q. hrs.)

A study of the process of integrating the file-oriented business system into its operational environment.

Prerequisite: Management 332 and junior standing.

345 (452). Personnel Management. Every quarter. (4 q. hrs.)

Objectives, functions, and organization of a typical personnel program. Problems in personnel administration.

Prerequisite: Management 251 or permission of Head of the Department of Management.

346. Business Law. Every quarter. (4 q. hrs.)

Introduction to law; contracts; agency and employment commercial papers; personal property and bailments.

Prerequisite: Junior standing.

347. Business Law. Every quarter. (4 q. hrs.)

Sales of goods; partnerships; corporations; real property and leases; insurance; security devices; bankruptcy; trusts and estates.

Prerequisite: Management 346.

370. Principles of Financial Management. Every quarter. (4 q. hrs.)

A study of financial organizations in the American economy.

371 (482). Corporation Finance. Every quarter. (4 q. hrs.)

The corporation in a possible life cycle of organization, operation, and reorganization or failure; the various forms of corporate securities; financing the corporation management of income.

Prerequisite: Management 370.

372 (380). Investments. Fall, and Spring. (4 q. hrs.)

Classification and analysis of the contractual features of securities; the mechanics of investment; determination of the qualities of a security; selection of securities for portfolios. Problems of individual and institutional investors.

Prerequisite: Accounting 230, Economics 255, or permission of the instructor.

381. Business Statistics I. Every quarter. (4 q. hrs.)

Provides a working knowledge of the statistical tools used in analyzing business problems. Fundamental phases of statistical technique as graphic presentations, averages, index numbers, sampling error, and simple correlation.

Not open to students who have completed an introductory statistics course.

382 (384). Business Statistics II. Winter, Spring and Summer. (4 q. hrs.)

Extension of the range of topics covered in Business Statistics I to include probabilities and decision making, analysis of variance, measuring and forecasting business changes and regression analysis.

Prerequisite: Management 381.

383. Business Report Writing. Every quarter. (4 q. hrs.)

The organization and preparation of reports of the types used in business and technical communications. Techniques of collecting, interpreting, and presenting information. Study of actual reports.

Prerequisite: Junior standing.

390 (480). Principles of Insurance. Fall and Spring. (4 q. hrs.)

Treats the risks to which man and property are subject and the elimination of the financial consequences of these risks through insurance coverages. Includes life, property, and casualty insurance.

420. Security Analysis. Winter and Summer. (4 q. hrs.)

A study of the financial and commodity markets with emphasis upon both buyer and seller in transactions.

Prerequisite: Management 372.

430. Data Processing Laboratory. Every quarter. (4 q. hrs.)

Experiences in the processing of information by the use of punched card equipment and computer. Use of the card punch, sorter, reproducer, accounting machine, printer, and the electronic computer.

Prerequisite: Management 230 and permission of the Head of the Department of Management.

434. Production Management. Fall and Spring. (4 q. hrs.)

Management of manufacturing enterprises. Includes plant location, plant layout, production processes, and production control systems.

Prerequisite: Management 251.

435. Motion and Time Study. Winter and Summer. (4 q. hrs.)

Study of work methods, design and principles of motion and time economy.

Prerequisite: Management 251, 434.

436. Managerial Decision Making. Fall and Spring. (4 q. hrs.)

Decision making in a simulated dynamic, competitive industry. A computer program is used to simulate an industry. Teams of students act as companies making decisions regarding price, research and development, advertising production levels and others.

Prerequisite: Management 251.

437. Job Evaluation. Winter. (4 q. hrs.)

Analysis of the methods and techniques used in evaluating jobs within an organization. Problems of wage and salary structure.

Prerequisite: Management 251 and 345.

438. Labor Law. Spring. (4 q. hrs.)

A study of early doctrines, structure and purpose of labor combinations, and legal problems arising from activities of labor organization in industrial controversies. Jurisdiction over disputes, remedies available, regulatory labor legislation, management's responsibility under the law.

Prerequisite: Management 347.

439. Real Estate. Winter. (4 q. hrs.)

A study of theory and practice in real estate, with social and economic implications.

Prerequisite: Management 347.

445. Collective Bargaining. Spring. (4 q. hrs.)

Deals with the role played by management and labor representatives in the collective bargaining process as revealed by analysis of a series of actual cases in diverse industries. Specific attention is devoted to a consideration of the factors making for industrial conflict and the means of their amicable settlement.

Prerequisite: Management 347.

490. Internship in Management. Arr. (4 q. hrs.)

Employment experience in a phase of management for one quarter, in a firm approved by the Head of the Department of Management, to be agreed upon by the firm and the Department Head.

Prerequisite: Permission of the Head of the Department of Management and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**458. Case Problems in Business Law.** Spring. (4 q. hrs.)

This course assumes that the student has a knowledge and background of the theory of business law. The solution of case problems as applied to the various topics in the field of business law.

Prerequisite: Management 347 or the equivalent.

483. Current Problems in Finance. Spring. (4 q. hrs.)

A survey of current literature in finance with a seminar approach in discussing present problems and developments.

Prerequisite: Management 370, 371, and 372.

484. Commercial Banking. Winter. (4 q. hrs.)

The organization and management of commercial banks, functions, departments, personnel, policies. The contribution of the modern commercial bank to the community.

Prerequisite: Accounting 230, Economics 255.

498. Independent Study. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of management selected in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Management.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose

grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. The Corporation in Society. Summer. (4 q. hrs.)

A course for non-business majors to give an understanding of the corporate idea and the adaptation of this idea to the requirements of modern society; implications for the individual and society.

Credit applicable only to the Group III requirements for the degree M.S. in Ed.

MARKETING

247. Principles of Marketing. Every quarter. (4 q. hrs.)

Current marketing channels; marketing functions and institutions; methods used in marketing agricultural products, raw materials and manufactured goods.

248. Principles of Salesmanship. Every quarter. (4 q. hrs.)

The psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling.

249. Principles of Retailing. Every quarter. (4 q. hrs.)

The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work, business forecasting.

Prerequisite: Marketing 247 and Accounting 230.

250. Principles of Advertising. Every quarter. (4 q. hrs.)

Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; labels; trademarks; slogans; campaigns.

Prerequisite: Marketing 247.

370. Credit Management. Every quarter. (4 q. hrs.)

Consumer and commercial credit and collection practices and policies in business organization. Organization and operation of credit departments.

Prerequisite: Accounting 230, Economics 256, or permission of the instructor.

371. Materials Management. Fall and Spring. (4 q. hrs.)

The acquisition, control and utilization of materials in industrial operations. Deals with the nature of procurement, inventory control and value analysis.

Prerequisite: Marketing 247, Management 251 and Economics 256.

449. International Marketing. Winter. (4 q. hrs.)

An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations.

Prerequisite: Marketing 247 and Economics 256.

490. Internship in Marketing. Arr. (4 q. hrs.)

Employment experience in some phase of marketing for one quarter, in

a firm approved by the Head of the Department of Marketing, to be agreed upon by the firm and the Department Head.

Prerequisite: Permission of the Head of the Department of Marketing and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

476. Traffic Management. Fall and Spring. (4 q. hrs.)

Transportation facilities and their historical development; comparison of alternative services; transport costs, rates and routes; shipping documents. The scope of traffic management; organization and operation of traffic departments.

Prerequisite: Marketing 247 and Management 251.

486. Marketing Research. Fall and Spring. (4 q. hrs.)

A basic course. Topics covered are: nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report, follow-up, and evaluation of research process. Problems.

Prerequisite: Marketing 247.

487. Market Management Problems. Winter and Spring. (4 q. hrs.)

Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Emphasis on the case method in problem analysis.

Prerequisite: Accounting 232, Marketing 247, and Management 251.

498. Independent Study. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of marketing selected in cooperation with the Department Head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Marketing.

MASTER OF BUSINESS ADMINISTRATION

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

530. Quantitative Analysis. Fall. (4 q. hrs.)

Designed to provide students with skills in statistics and other quantitative techniques necessary for advanced work in functional areas of business administration.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

531. Communication Analysis. Fall. (4 q. hrs.)

Analysis of the functions, planning, psychology, and organization of selected types of written and oral business communications (with emphasis on those which are analytical and research-oriented). Communication is treated from the administrator's viewpoint.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

532. Management Information Systems. Fall. (4 q. hrs.)

The course will deal with the accumulation, processing, analysis, and utilization of data pertinent to the operation of a business firm.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

533. Production Management. Fall. (4 q. hrs.)

An examination of operating problems from the standpoint of the production executive.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

534. Foundations of Business Enterprise. Fall. (4 q. hrs.)

The historical development of business enterprises—the social and economic role of the executive. The evolution of business organizations and practice and their relationship to society.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

560. Managerial Accounting. Winter. (4 q. hrs.)

Accounting as viewed by the user rather than the supplier of financial data.

Prerequisite: Enrollment in the MBA program.

561. Marketing Management. Winter. (4 q. hrs.)

The techniques of management as they are applied to the functional areas of marketing. Both quantitative and behavioral tools are used. This is largely a case problems course interspersed with related readings and lectures.

Prerequisite: Enrollment in the MBA program.

562. Operations Research. Winter. (4 q. hrs.)

Principles and methods of operations research from a managerial point of view, emphasizing the formulation of business problems in quantitative terms; topics in linear programming, PERT, inventory models, queuing theory, simulation, and probability theory.

Prerequisite: Enrollment in the MBA program.

563. Manpower Management. Winter. (4 q. hrs.)

A comprehensive study of personnel program and their management in formal organizations. The course will concentrate on research into the operation of personnel management.

Prerequisite: Enrollment in the MBA program.

564. Financial Management. Winter. (4 q. hrs.)

A financial approach to business management; the sources and uses of funds; an introduction to financial management. Lectures, cases, and current readings in the field of business finance.

Prerequisite: Enrollment in the MBA program.

580. Seminar in Accounting Theory. Spring. (4 q. hrs.)

An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting.

Prerequisite: Enrollment in the MBA program.

581. Seminar in Marketing Theory. Spring. (4 q. hrs.)

The development of marketing theory. The progress of the discipline of marketing toward becoming a science is examined. Past and present writings of marketing scholars will be studied and reported.

Prerequisite: Enrollment in the MBA program.

582. Seminar in Organization Theory. Spring. (4 q. hrs.)

Value systems underlying management thought; organizational processes; and issues in organization theory. Elements of the behavioral sciences as they pertain to organization behavior and practice.

Prerequisite: Enrollment in the MBA program.

583. Seminar in Business Finance. Spring. (4 q. hrs.)

Analysis of money markets from the investor's point of view. A study of financial institutions and their influence on money markets. Securities markets and other investment media.

Prerequisite: Enrollment in the MBA program.

590. Administrative Policy. Spring. (4 q. hrs.)

Top-management functioning. Emphasis is on integration of functions toward the objectives of the organization. Case studies, special reports, and seminar discussions of top management problems.

Prerequisite: Enrollment in the MBA program.

**SCHOOL OF HEALTH,
PHYSICAL EDUCATION, AND RECREATION**

Health Education 275

Physical Education for Men 276

Physical Education for Women 284

HEALTH EDUCATION**UNDERGRADUATE COURSES****120. Personal Hygiene.** Every quarter. (4 q. hrs.)

Personal hygiene for young adults in college: emotional problems; sex, marriage, parenthood; nutrition; fatigue and rest; alcohol and tobacco; immunization; related personal and public health problems.

131 (P.E.W. 131). First Aid and Safety Education. Every quarter. (4 q. hrs.)

This course consists of (1) regulation American Red Cross first aid methods and (2) safety in schools, particularly in physical education activities.

227. Health Education in Elementary, Junior, and Senior High Schools.

Every quarter. (4 q. hrs.)

Organic functions and problems of effective healthful living.

Prerequisite: Health Education 120.

300 (P.E.W. 300). Instructor's First Aid. Spring. (4 q. hrs.)

Standard, advanced, and instructor's course in first aid. Emphasis on analysis of accidents, first aid procedures, and methods and materials of instruction.

320. School and Community Health Problems. Every quarter. (4 q. hrs.)

A survey of the school health program with particular emphasis on the teacher's role in healthful school living, health services, and health instruction. School-community relationships are emphasized as well as those between teaching personnel and other responsible persons.

Prerequisite: Health Education 120 or its equivalent.

330. Safety Education. Every quarter. (4 q. hrs.)

Safety problems of modern life in the home, school, during recreation, on the highway, and at work.

331. Introduction to Driver Education. Fall and Spring. (4 q. hrs.)

The first of two courses designed to prepare teachers of driver education for secondary schools; laboratory work with beginning drivers.

Prerequisites: Valid driver's license and a safe driving record.

332. Advanced Driver Education and Traffic Safety. Fall and Spring. (4 q. hrs.)

A continuation of Health Education 331, with special attention to administration, organization, finance, adult education and evaluation of the school driver education program.

Prerequisite: Health Education 331 or concurrent enrollment.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**480. Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society.**
(Summer Odd-Years only.) (4 q. hrs.)

A course for teachers, administrators, and others interested in the development of alcohol and narcotic education programs. Course centers around the use and abuse of stimulants and depressants.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a student whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

501. Current Health Problems. Spring. (4 q. hrs.)

An epidemiological investigation of the cause, nature, extent, and trends in programming current health problems, including chronic and degenerative diseases, mental illness; traumatic injury; radiological hazards and contamination; communicable diseases; and nutritional deficiencies.

PHYSICAL EDUCATION FOR MEN

Students are required to attend physical education classes regularly two hours each week during each quarter of residence (including summer) until a minimum of six quarter hours credit has been earned unless this requirement is modified by the University Physician or they have attained the age of thirty-eight. It is the responsibility of the student, not his advisor, to see that this requirement is met, and to select his own courses for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

Students who attend only in summer and who will not become candidates for graduation are released from physical education requirements.

It is recommended that the student select a program of activities which includes a minimum of two courses in team games, two courses in individual activities, and one course in dance. No course may be repeated for credit without permission of the Head of the Men's Physical Education Department.

Prior to entering the University, each student is required to have a physical examination. When abnormalities and weaknesses are disclosed by the examination, corrective exercise and restricted activities are prescribed. The Health Service follows up cases in need of medical attention.

Equipment. Each student who takes physical education is required to have rubber-soled gymnastic shoes. All other equipment will be furnished by the University. Each student is required to follow regulations in the use of this equipment. Regulations for the use of the equipment will be given at the first class period and will be posted in the locker room.

For a statement of fees for lock, see page 49.

SERVICE COURSES

Service courses in physical education are numbered to indicate the level of the work. Courses in the 100 series are intended for beginners; majors and minors in physical education should register for service courses which will serve as prerequisites for the professional "Technique of Teaching" courses. Veterans who are majors or minors in physical education are not exempted from service physical education or Health Education 120 if these courses are prerequisite to other professional courses, unless evidence is presented that the specific content of these courses has been covered in military service.

002. Baseball (Intercollegiate Team Participation). Spring. (1 q. hr.)

- 003. Basketball (Intercollegiate Team Participation). Winter. (1 q. hr.)
- 005. Soccer. (Intercollegiate Team Participation). Fall. (1 q. hr.)
- 009. Football (Intercollegiate Team Participation). Fall. (1 q. hr.)
- 012. Golf (Intercollegiate Team Participation). Spring. (1 q. hr.)
- 013. Gymnastics (Intercollegiate Team Participation). Winter and Spring. (1 q. hr.)
- 014. Tennis (Intercollegiate Team Participation). Spring. (1 q. hr.)
- 015. Wrestling (Intercollegiate Team Participation). Winter. (1 q. hr.)
- 016. Cross Country and Track (Intercollegiate Team Participation). Fall, Winter and Spring. (1 q. hr.)
- 018. Swimming (Intercollegiate Team Participation). Winter. (1 q. hr.)
- 100. Basic Physical Education. Fall and Winter. (1 q. hr.)

Activities to improve the general fitness and motor ability as related to individual needs.

- 101. Prescribed Activities. Every quarter. (1 q. hr.)

Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.

- 103. Basketball (Beginning). Every quarter. (1 q. hr.)
- 105. Soccer (Beginning). Fall. (1 q. hr.)
- 106. Softball (Beginning). Spring. (1 q. hr.)
- 107. Touch Football (Beginning). Fall. (1 q. hr.)
- 108. Volleyball (Beginning). Every quarter. (1 q. hr.)
- 110. Archery (Beginning). Fall and Spring. (1 q. hr.)
- 111. Badminton (Beginning). Every quarter. (1 q. hr.)

Open to both men and women.

- 112. Golf (Beginning). Fall and Spring. (1 q. hr.)

Open to both men and women.

- 113. Gymnastics Apparatus (Beginning). Winter and Spring. (1 q. hr.)
- 114. Tennis (Beginning). Fall and Spring. (1 q. hr.)

Open to both men and women.

- 115. Wrestling (Beginning). Winter. (1 q. hr.)
- 116. Track (Beginning). Spring. (1 q. hr.)
- 117. Stunts and Tumbling. Winter. (1 q. hr.)
- 119. Bowling (Beginning). Winter and Spring. (1 q. hr.)

Open to both men and women.

140 (118). **Swimming (Beginning)**. Every quarter. (1 q. hr.)

For beginning swimmers only. Persons able to swim the width of a 45-foot pool should enroll in P.E.M. 141.

141. **Intermediate Swimming**. Every quarter. (1 q. hr.)

142. **Senior Life Saving**. Winter. (1 q. hr.)

Intermediate swimming or demonstrate level of ability by passing a pre-test.

Prerequisite: P.E.M. 141. Open to both men and women.

143. **Competitive Swimming and Diving**. Fall. (1 q. hr.)

Prerequisite: P.E.M. 141. Intermediate swimming or demonstrate level of ability by passing a pre-test.

144. **Scuba and Snorkel Diving**. Spring. (1 q. hr.)

Prerequisite: P.E.M. 141 or demonstrate level of ability by passing a pre-test. Open to both men and women.

145. **Water Polo**. Winter. (1 q. hr.)

Prerequisite: A student must demonstrate a level of swimming ability equal to skills learned in any other course offered in swimming except P.E.M. 140.

146. **Water Safety Instruction**. Spring. (1 q. hr.)

Prerequisite: A student must have passed P.E.M. 142 or have a recently earned Senior Life Saving Certificate issued by the American Red Cross. Open to both men and women.

160. **Weight Training (Beginning)**. Fall, Winter. (1 q. hr.)

161. **Weight Training (Intermediate)**. Winter and Spring. (1 q. hr.)

Prerequisite: P.E.M. 160 or demonstrate level of ability by passing pre-test.

162. **Handball**. Every quarter. (1 q. hr.)

164. **Rifle and Pistol**. Every quarter. (1 q. hr.)

190. **Folk and Square Dancing**. Every quarter. (1 q. hr.) See Physical Education (Women).

191. **Modern Dance (Beginning)**. Every quarter. (1 q. hr.) See Physical Education (Women).

192. **Social Dance**. Every quarter. (1 q. hr.) See Physical Education (Women).

291. **Modern Dance (Intermediate)**. Every quarter. (1 q. hr.) See Physical Education (Women).

391. **Modern Dance (Composition)**. Spring. (1 q. hr.) See Physical Education (Women).

PROFESSIONAL COURSES

(Undergraduate Courses)

120. Basic Activities for Elementary and Secondary Schools. Every quarter. (4 q. hrs.)

Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.

121. Elementary Tumbling, Stunts, and Pyramids. Winter and Spring. (4 q. hrs.)

Basic tumbling skills; vaulting; trampoline.

150. Introduction to Physical Education. Every quarter. (4 q. hrs.)

General scope, purpose, history, growth and development of physical education.

203. Technique of Teaching Basketball. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 103 or evidence of a level of competence in the specific skill necessary for teaching.

205. Technique of Teaching Soccer. Fall. (2 q. hrs.)

Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.

206. Techniques of Teaching Softball. Spring. (2 q. hrs.)

Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.

207. Technique of Teaching Touch Football. Fall. (2 q. hrs.)

Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.

208. Technique of Teaching Volleyball. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.

210. Technique of Teaching Archery. Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.

211. Technique of Teaching Badminton. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.

212. Technique of Teaching Golf. Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.

213. Technique of Teaching Gymnastics Apparatus. Winter and Spring. (2 q. hrs.)

Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.

214. Technique of Teaching Tennis. Fall and Spring. (2 q. hrs.)

Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.

215. Technique of Teaching Wrestling. Winter. (2 q. hrs.)

Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.

217. Technique of Teaching Stunts and Tumbling. Winter. (2 q. hrs.)

Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

228. Organization and Administration of Playgrounds. Spring. (4 q. hrs.)

Administrative problems associated with the operation of playgrounds; personnel; publicity; financing; legal aspects; programming; operation of seasonal type playgrounds.

Open to both men and women.

240 (218). Technique of Teaching Swimming. Every quarter. (2 q. hrs.)

Prerequisite: Physical Education 140, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.

244. Kinesiology. Every quarter. (4 q. hrs.)

Laws of physics applied to human motion; joint movements; motion of muscle groups. Analysis of fundamental body movements and the adaptation of gymnastic exercises to posture training and sports activities.

Prerequisite: Zoology 225. Open to both men and women.

340. Organization of Grade Level Activities and Methods of Teaching the Activity in Physical Education. Winter and Spring. (4 q. hrs.)

Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.

Prerequisite: Four quarter hours of physical education activities at the 200 level; admission to teacher education and junior standing.

347. Basketball Coaching. Winter and Spring. (4 q. hrs.)

Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.

348. Football Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; strategy.

349. Track and Field Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of running and starting; the pole vault; shot; discus; high and broad jumps; javelin; hurdles. Organization of track meets. Study of rules and strategy.

350. Baseball Coaching. Fall and Spring. (4 q. hrs.)

Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.

351. Camping. Spring. (4 q. hrs.)

Organization and administration of camps including program planning; counselor problems; camp policies.

357. Golf Coaching. (Omitted 1969-70.) (4 q. hrs.)

Fundamentals of golf including individual and team play; conduct of tournaments; care of equipment; maintenance of golf courses.

358. Gymnastics Coaching. (Omitted 1969-70.) (4 q. hrs.)

Fundamentals of heavy apparatus; rings, trampoline; free exercise.

359. Tennis Coaching. (Omitted 1969-70.) (4 q. hrs.)

Fundamentals of individual and team play; team management; conduct of clinics and tournaments; care of courts and equipment; as applied to varsity and recreational tennis.

360. Coaching of Wrestling. (Omitted 1969-70.) (4 q. hrs.)

The theory and application of wrestling maneuvers. The rules; strategy; conditioning; and training.

378. Introduction to Community Recreation. Fall. (4 q. hrs.)

Interpretation of the importance of recreation in modern society. Emphasis on various approaches to community organization of recreation with study of the settings provided for the development of recreational services.

431 (451). History and Principles of Physical Education. Every quarter. (4 q. hrs.)

The historical background of physical education; relationship of physical education to general education; physiological, psychological and sociological principles related to physical education.

432 (452). Physical Education Administration and Supervision.

Every quarter. (4 q. hrs.)

Responsibilities of an administrator in program planning; construction of facilities; purchase and maintenance of equipment; upkeep of gymnasiums and play-fields; interschool and intramural athletics.

433 (461). The Prevention and Care of Athletic Injuries. Fall, Winter, and Spring. (4 q. hrs.)

Athletic injury statistics; primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved; taping, padding, and bracing new and recurrent injuries.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**470 (522). Organization and Administration of Intramural Athletics.** Fall. (4 q. hrs.)

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs; records; point systems; and awards.

Open to both men and women.

471. Practicum in Recreation Leadership. (Omitted 1969-70.) (4 q. hrs.)

A field experience to include assignment to an established community recreation program.

Open to both men and women.

474. Development of Areas and Facilities for Physical Education and Recreation. Fall. (4 q. hrs.)

Design and operation of physical education and recreation facilities, both indoor and outdoor, including types, location, layout, and construction standards.

Open to both men and women.

476. Recreation in the Natural Environment. Spring. (4 q. hrs.)

An analysis of existing programs of recreation, both commercial and public, conducted in the natural environment with special emphasis on the planning of activities adaptable to the natural setting.

Open to both men and women.

479. Swimming Pool Management and Operation. Winter. (4 q. hrs.)

A course to orient the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning.

Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Introduction to Graduate Study in Physical Education. Fall. (4 q. hrs.)

A critical review of selected studies in the literature of physical education. Evaluation of the literature; study of problems confronting the profession; techniques employed in the historical, philosophical, survey, and experimental methods of research.

Open to both men and women.

520 (495). Course of Study Development in Physical Education. Spring. (4 q. hrs.)

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

Open to both men and women.

521 (475). Administration of Interschool Athletics. Winter. (4 q. hrs.)

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

523. Physiology of Exercise. Winter. (4 q. hrs.)

A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory and muscular systems.

Prerequisite: Zoology 348.

Open to both men and women.

524. Physical Education for the Atypical Individual. (Omitted 1969-70).
(4 q. hrs.)

Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual.

Open to both men and women.

528. The Organization and Administration of Community Recreation.
Spring. (4 q. hrs.)

Recent trends in organizing and administering of recreation on federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures.

Open to both men and women.

530. Advanced Administration of Physical Education in Schools. Fall.
(4 q. hrs.)

Legal responsibilities and liability; construction and maintenance of equipment and facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.

Open to both men and women.

550. Sports and Physical Education in American Society. Fall. (4 q. hrs.)

A course designed for the non-major of physical education to give the student an appreciation of the contributions of physical education and athletics in our American culture, and the role of physical education in early civilization.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Experimental Laboratory Research in Physical Education.
(Omitted 1969-70.) (4 q. hrs.)

Methods and techniques in research in physical education and related fields.

Open to both men and women.

571. Sociological Bases of Sport in America. (Omitted 1969-70.) (4 q. hrs.)

The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.

Open to both men and women.

572. Evaluation of Physical Education Philosophies in Foreign Countries.
Fall. (4 q. hrs.)

A comparative study of philosophies of physical education in selected European, Asian and Latin American countries.

Open to both men and women.

573. The Nature and Bases of Motor Behavior. (Omitted 1969-70.)
(4 q. hrs.)

A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance.

Open to both men and women.

580. Analytical Readings in Health, Physical Education and Recreation.
(Omitted 1969-70.) (4 q. hrs.)

Assigned readings in professional publications for education and health and physical education articles. Written and oral analysis of implications obtained in the readings will be made.

Open to both men and women.

590, 591, 592. Independent Study. Every quarter. (4 q. hrs. for each course.)

Individual pursuit of study selected by the student and directed by a member of the graduate staff. The study selected and credit hours to be earned are determined by the student's advisor.

Open to both men and women.

595. Thesis. (4 q. hrs.)

PHYSICAL EDUCATION FOR WOMEN

Students are required to attend physical education classes regularly two hours each week during each quarter of residence (including summer) until a minimum of six quarter hours credit has been earned unless this requirement is modified by the University Physician or they have attained the age of thirty-eight. It is the responsibility of the student, not his advisor, to see that this requirement is met, and to select his own courses for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

Students who attend only in summer and who will not become candidates for graduation are released from physical education requirements.

The required physical education service courses shall include:

- 3 courses in sports (team and individual)
- 2 courses in dance
- 1 course in fundamentals

It is the responsibility of the student, not her advisor, to see that this requirement is observed, and to select her own courses, and sections of those courses, for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed. No course shall be repeated for credit without permission of the head of the Physical Education Department. Upperclassmen are encouraged to elect courses that interest them.

Physical education majors are required to take one course in swimming (186, 286, 386), or proficiency swimming by currently possessing a valid A.R.C. Senior Life Saving or W.S.I. Certificate.

SERVICE COURSES

098. Courses for Individual Needs. Every quarter. (1 q. hr.)

Courses in an adapted form of activity are offered for students with individual problems.

172. Basketball. Winter. (1 q. hr.)

173. Field Hockey. Fall. (1 q. hr.)

Required of all majors.

174. Soccer. Fall. (1 q. hr.)

175. Softball. Spring. (1 q. hr.)

176. Speedball. Fall and Spring. (1 q. hr.)

Required of all majors.

177. Volleyball. Fall, Winter and Spring. (1 q. hr.)

180. Archery. Fall, Spring and Summer. (1 q. hr.)

Required of all majors.

181. Badminton. Fall, Winter and Spring. (1 q. hr.)

Required of all majors.

182. Bowling. Fall, Winter, and Spring. (1 q. hr.)

Required of all majors.

183. Golf. Fall, Spring, and Summer. (1 q. hr.)

Required of all majors.

185. Stunts and Tumbling. Fall and Winter. (1 q. hr.)

Required of all majors.

186. Swimming. Every quarter. (1 q. hr.)

187. Tennis. Fall, Spring, and Summer. (1 q. hr.)

Required of all majors.

188. Fencing. Winter and Spring. (1 q. hr.)

189. Gymnastics Apparatus. (Omitted 1969-70.) (1 q. hr.)

190. Folk and Square Dance. Every quarter. (1 q. hr.)

Open to both men and women. Required of all majors.

191. Modern Dance. Fall, Winter, and Spring. (1 q. hr.)

Open to both men and women. Required of all majors.

192. Ballroom Dance. Every quarter. (1 q. hr.)

Open to both men and women. Required of all majors.

194. Track and Field. Spring. (1 q. hr.)

For physical education majors and minors only, or permission of the instructor. Required of all majors.

196. Officiating. Fall. (1 q. hr.)

For physical education majors and minors only. Required of all majors.

197. Officiating. Winter. (1 q. hr.)

For physical education majors and minors only. Required of all majors.

199. Fundamentals. Every quarter. (1 q. hr.)

Understandings and principles of good body mechanics as applied to

everyday life. Awareness of tensions, balance, use of muscles in good and poor body mechanics, posture work. Techniques for relaxation.

Required of all majors.

272. Basketball (Intermediate). Winter. (1 q. hr.)

Prerequisite: Physical Education 172 or permission of the instructor.

273. Field Hockey (Intermediate). Fall. (1 q. hr.)

Prerequisite: Physical Education 173 or permission of the instructor.

277. Volleyball (Intermediate). Winter and Spring. (1 q. hr.)

Prerequisite: Physical Education 177 or permission of the instructor.

281. Badminton (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 181 or permission of the instructor.

283. Golf (Intermediate). Fall, Spring and Summer. (1 q. hr.)

Prerequisite: Physical Education 183 or permission of the instructor.

286. Swimming (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 186 or permission of the instructor.

287. Tennis (Intermediate). Fall, Spring and Summer. (1 q. hr.)

Prerequisite: Physical Education 187 or permission of the instructor.

290. Folk and Square Dance (Intermediate). Winter. (1 q. hr.)

291. Modern Dance (Intermediate). Every quarter. (1 q. hr.)

Prerequisite: Physical Education 191 or permission of the instructor. Required of all majors.

315. Games for the Elementary School. Winter and Spring. (1 q. hr.)

Prerequisite: Physical Education 130. For physical education majors only. Required of all majors.

383. Golf (Advanced). Fall, Spring and Summer. (1 q. hr.)

Prerequisite: Physical Education 283 or permission of the instructor.

386. Swimming (Advanced). Spring. (1 q. hr.)

Prerequisite: Physical Education 286 or permission of the instructor.

387. Tennis (Advanced). Fall, Spring and Summer. (1 q. hr.)

Prerequisite: Physical Education 287 or permission of the instructor.

391. Modern Dance (Composition). Spring. (1 q. hr.)

This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions.

Prerequisite: Physical Education 291, or permission of instructor. Open to both men and women. Required of all majors.

392. Rhythm Analysis. Winter. (1 q. hr.)

An analysis of, and practice in, the rhythm factors in movement with

special emphasis on the basic dance steps and skills of the folk, square, and social dance forms.

Prerequisite: Physical Education 391. For physical education majors and minors only, or permission of the instructor. Required of all majors.

PROFESSIONAL COURSES

(Undergraduate Courses)

- 130. Plays, Games and Activities of Low Organizations.** Fall, Winter and Summer. (4 q. hrs.)

Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.

Open to both men and women.

- 132. Leadership in Recreation.** Spring. (4 q. hrs.)

A study of basic philosophy of recreation and of areas, activities and interests in the field of recreation; practical experience in planning and administration of recreational activities, camping, and outdoor cookery.

Open to both men and women.

- 228. Organization and Administration of Playgrounds.** Spring. (4 q. hrs.)

See Physical Education (Men).

- 233. Technique of Team Sports—Soccer, Speedball, and Hockey.** Fall. (4 q. hrs.)

An analysis of the basic techniques of hockey, soccer, speedball. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

- 234. Technique of Team Sports—Basketball, Volleyball, and Softball.** Winter. (4 q. hrs.)

An analysis of the basic techniques of basketball, volleyball, and softball. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

- 235. Theory of Prescribed Exercises.** Winter and Spring. (4 q. hrs.)

Preventive and modified activities for the physically handicapped child. Theory and practice of an orthopedic examination are included.

Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

- 252. Activity Needs and Interests of the Elementary School Child.** Spring and Summer. (4 q. hrs.)

The needs in terms of growth, development, and adjustment of children of the elementary grades. How to choose activities that will contribute most to the satisfaction of these needs.

Open to both men and women. Prerequisite: Physical Education 130 or permission of the instructor.

336. Problems in Developing Programs in Modern and Folk Dance.

Winter and Summer. (4 q. hrs.)

Principles underlying the modern dance art form. Structure and ethnic roots of folk. Materials for course planning, teaching, and accompaniment.

Open to both men and women. Prerequisite: Physical Education 191, 291, 391 and 190.

345. Physical Education Activities for the Elementary School. Spring.

(4 q. hrs.)

Guidance in analyzing the students' own school situations. Methods and materials for planning the physical education program.

346. Course Planning and Organization of Square and Social Dance. Fall.

(4 q. hrs.)

Theory and methods for Junior and Senior High Schools basic to course planning and teaching. Analysis of music for dance and dance skills. Survey of literature.

Open to both men and women. Prerequisite: Physical Education 190 and 192.

351. Camping. (4 q. hrs.)

See Physical Education (Men).

353. Technique of Individual Sports—Archery, Badminton, Tennis, and Stunts. Spring and Summer. (4 q. hrs.)

An analysis of the basic techniques of archery, badminton, tennis, and stunts. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

354. Physical Education for High School Girls. (Omitted 1969-70.)

(4 q. hrs.)

Methods of presenting physical education activities on the Junior and Senior High School level. Course is designed for the teacher not trained in physical education. No credit toward a major in physical education.

355. Field Work in Recreation. (Omitted 1969-70.) (4 q. hrs.)

Students are assigned to a public or private agency in the community for the purpose of organizing and conducting specific activities or groups under supervision.

Open to both men and women.

356. Outing Crafts. Summer. (4 q. hrs.)

A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered.

Open to both men and women.

360. Introduction to Elementary School Physical Education. Fall, Winter, Spring. (2 q. hrs.)

A study of physical education as it relates to the total education of the elementary school child. Emphasis is on the developmental approach to physical education.

361. Physical Education Activities for Elementary Schools. Fall. (4 q. hrs.)

A study of body mechanics and games (exclusive of sports, rhythms, stunts, apparatus, and tumbling). Emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

362. Rhythmical Activities for Elementary Schools. Spring. (4 q. hrs.)

A study of dance and creative rhythms in the elementary school curriculum. Emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

363. Tumbling and Apparatus Activities for Elementary Schools. Winter. (4 q. hrs.)

A study of tumbling and apparatus in the elementary school curriculum. Analysis of and practice in spotting techniques in mat and apparatus work is stressed.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

410 (451). History and Principles of Physical Education. Fall and Winter. (4 q. hrs.)

The study of physical education from ancient to modern times, as it has met the needs of the people of each generation. An interpretation of the objectives of physical education in accordance with the objectives of general education in modern society.

411 (456). Organization and Administration of Physical Education. Winter, Spring, and Summer. (4 q. hrs.)

Study of effective procedures in organization and administration of the physical education program. Students prepare a curriculum on the elementary, junior or senior high school level based upon principles studied in Physical Education 410.

Prerequisite: Physical Education 410.

413 (458). Objectives of Physical Education and Administration of the Program. Spring and Summer. (4 q. hrs.)

This course is intended for students in the physical education minor and the physical education concentration in the elementary curriculum.

Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 450. Evaluation of Physical Education Activities.** Fall and Spring.
(4 q. hrs.)

Selection and administration of physical measurements and written tests commonly used in physical education.

Open to both men and women.

- 457. Analysis of Human Motion.** Summer and Winter. (4 q. hrs.)

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Includes specific analysis of technique involved in the execution of sports, skills and of basic body movement.

Prerequisite: Physical Education 244. Open to both men and women.

- 473 (513). Planning the Recreation Program.** (Omitted 1969-70.)
(4 q. hrs.)

Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreational potential of a community; formulation of plans for meeting various recreational needs.

Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510. Supervision of Physical Education.** (Omitted 1969-70.) (4 q. hrs.)

Techniques of supervision of physical education in the elementary and secondary school; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.

Open to both men and women.

- 512. Application of Psychology to Physical Education.** Fall. (4 q. hrs.)

A study of psychological principles, laws of learning, and their application to physical education.

Open to both men and women.

- 514 (459). Current Trends in the Teaching of Physical Education in the Elementary and Junior High School.** Summer, Winter. (4 q. hrs.)

Materials, organization and program of physical education in the elementary and junior high school. Integration of physical education with general education.

Prerequisite: Physical Education 252 or equivalent. Open to both men and women.

- 515. Physical Education—An Aesthetic Approach.** Summer. (4 q. hrs.)

Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

Open to both men and women.

519. Growth and Development Through Physical Education. Fall. (4 q. hrs.)

Survey of the physical, social, emotional, and intellectual growth and development of children and adolescents as these relate to curriculum planning for physical education.

Open to both men and women.

551. Historical Development of Dance. (Omitted 1969-70.) (4 q. hrs.)

A study of the relationship of dance to the other arts. Emphasis is given to the socio-cultural implications of the arts throughout the ages of mankind and the specific role of dance in this development.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Advanced Theory and Analysis of Team Sports. (Omitted 1969-70.) (4 q. hrs.)

Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the physical education program.

Prerequisite: Proficiency in the selected sports.

561. Advanced Theory and Analysis of Individual Sports.

(Omitted 1969-70.) (4 q. hrs.)

Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program.

Prerequisite: Proficiency in the selected sports.

562. Problems in the Administration of Girls' Physical Education. Fall. (4 q. hrs.)

Provides an opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education. Problems in the administrative field will be studied.

563. Philosophy of Physical Education. Winter. (4 q. hrs.)

Study of principles of physical education with application to current problems in the field.

Open to both men and women.

595. Thesis. (4 q. hrs.)

**SCHOOL OF
HOME ECONOMICS**

HOME ECONOMICS

Home Economics 210, 211, 212, 310, 320, 348, 401, 420, 430 have two lectures and two laboratory periods per week; Home Economics 101, 201, 301 meet eight periods per week; all other Home Economics courses meet four periods per week.

UNDERGRADUATE COURSES**101. Principles of Clothing Construction.** Every quarter. (4 q. hrs.)

A study of the principles of simple construction processes; interpretation and use of commercial patterns.

102. Nutrition. Every quarter. (4 q. hrs.)

The principles of human nutrition and their application to everyday nutritional problems; the relation of good food habits to the selection of an adequate dietary.

For majors only. (See Home Economics 303 for others.)

131. Clothing Selection. Every quarter. (4 q. hrs.)

An introduction to consumer buying of ready-to-wear clothing; includes the study of fabrics, construction features, and design and color principles.

201. Advanced Clothing Construction. Every quarter. (4 q. hrs.)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting.

Prerequisite: Home Economics 101 or permission of instructor.

210. Principles of Food Preparation. Fall. (4 q. hrs.)

A study of the scientific principles and techniques underlying food preparation with special emphasis on physical and chemical changes involved, and the evaluation of a standard product.

Prerequisite: Chemistry 153, 154, 155 or permission of instructor.

211. Principles of Food Preparation, Continued. Winter. (4 q. hrs.)

Continued study of the scientific principles and techniques underlying food preparation.

Prerequisite: Home Economics 210.

212 (204). Studies in Experimental Foods. Spring. (4 q. hrs.)

Physical and chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 211.

230. Household Equipment. Fall, Winter, Spring. (4 q. hrs.)

Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.

231. Sociology of Clothing. Every quarter. (2 q. hrs.)

Significance of clothing choices in all cultures; psychological reasons for

clothing selection; political and economic trends affecting clothing; and an analysis of the fashion market.

232. Fashion Analysis. Winter. (4 q. hrs.)

A study of fashion; selected designers, cycles and trends of fashion, terminology, production and distribution of fashion goods and factors affecting consumer acceptance.

Prerequisite: Home Economics 131.

233. Textiles. Winter. (4 q. hrs.)

An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market.

Prerequisite: Home Economics 131.

235. Household Physics. (Omitted 1969-70.) (4 q. hrs.)

Application of physical sciences to the home. Selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Background information for home economists in business.

245. Home Management Theory. Every quarter. (2 q. hrs.)

Principles of scientific management as applied to the home; includes a study of family finance, household buying, care of equipment, time and energy management, and housing problems.

300. Family Economics. Fall and Spring. (4 q. hrs.)

Factors affecting family financial management, including the influence of economic conditions on the welfare of families. Investments and savings; use of credit; insurance, and various types of family accounts.

301. Tailoring. Fall, Spring. (4 q. hrs.)

Tailoring techniques used in the construction of a suit or coat.

Prerequisite: Home Economics 201.

302 (344). Advanced Nutrition. Winter. (4 q. hrs.)

Principles of human nutrition and desirable dietary habits as applied to the needs of individuals at various stages in the life span; some emphasis on current nutrition research.

Prerequisite: Home Economics 102.

303. Human Nutrition and Food Study. (Omitted 1969-70.) (4 q. hrs.)

Fundamentals of normal nutrition and its application to feeding adults and children; principles involved in menu building, food buying and preparation.

For non-majors only.

310 (203). Family Food Management. (Omitted 1969-70.) (4 q. hrs.)

Application of scientific principles of menu construction, food buying,

food preparation and table service. Special emphasis on management and work simplification techniques.

Prerequisite: Home Economics 211.

312. Advanced Experimental Foods. (Omitted 1969-70.) (4 q. hrs.)

Advanced studies of physical chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 212.

320. Family Housing. Every quarter. (4 q. hrs.)

Choices available in moderate-priced housing; arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.

331. Historic Costume. Fall. (4 q. hrs.)

A comparative study of the dress of selected cultures from the Egyptians through World War II.

Prerequisite: Home Economics 231.

333. Advanced Textiles. Fall. (4 q. hrs.)

A study of the chemistry of textile fibers; problems will involve a wide range of fibers and fabrics but will stress synthetics. Research methods of analyzing and interpreting data in testing procedures will be used.

Prerequisite: Home Economics 233.

340. Methods of Teaching Home Economics. Fall and Spring. (4 q. hrs.)

The principles of teaching applied to home economics with particular emphasis on developing the curriculum, and the organization and administration of vocational departments in the public schools.

Prerequisite: Admission to teacher education and junior standing. Education 332 or permission of instructor.

345. Home Management. Every quarter. (4 q. hrs.)

Experience in the practical application of the principles of household management. A research project in management is required.

Prerequisites: Home Economics 211 and 245.

346. Child Development. Every quarter. (4 q. hrs.)

The physical, mental, social, and emotional development of the pre-school child.

347. Family Relationships. Every quarter. (4 q. hrs.)

Study of the family as the basic unit of society; personal relationships, boy-girl relationships; marital relationships and family interaction throughout the family life cycle.

348. Practicum in Child Development. Every quarter. (4 q. hrs.)

Supervised observation and participation in the guidance of children in the Nursery School.

Prerequisite: Home Economics 346 or Education 232 or permission of instructor.

360. Institutional Food Management. Fall. (4 q. hrs.)

Methods of food preparation in quantity; menu planning for institutions; recipe selection and standardization; economical use of materials and time. Practical experience is offered in the University food service.

Prerequisite: Home Economics 102 or 303, and 211.

370. Practicum. Arranged. (4 q. hrs.)

An individually planned employment experience in business appropriate to the student's area of specialization and approved by the head of the department in cooperation with the supervisor in the business.

Prerequisite: Permission of the department head and acceptance of the student by a business firm on the basis of the student's application.

380. Demonstration Techniques. Winter. (4 q. hrs.)

Development of desirable techniques and standards for use of the demonstration method. Critical evaluation of individual and team demonstrations suitable for use in business, teaching, and adult education.

390. Communications in Home Economics. Winter. (4 q. hrs.)

A study of techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups in various professional situations.

401. Principles of Pattern Design. Spring. (4 q. hrs.)

Principles of designing clothing and the translation of these designs into paper patterns; includes pattern drafting, grading, and fitting garments. Each student is required to create an original design, draft the pattern, and construct the garment.

Prerequisite: Home Economics 301 or permission of instructor.

402. Diet Therapy. Winter. (4 q. hrs.)

A study of the therapeutic care of a patient through the prescription of a specific diet, relating the art and science of normal nutrition to the dietary treatment and symptoms of the disease.

Prerequisite: Home Economics 302.

411. Food Purchasing for Institutions. (Omitted 1969-70.) (4 q. hrs.)

Factors affecting the purchase and storage of food in quantity.

Prerequisite: Senior standing or permission of the instructor.

420. Interior Design. Winter. (4 q. hrs.)

Selection and arrangement of furnishings with the emphasis on planning costs and budgets for different income levels; planning of individual rooms including the study of accessories, color schemes, and suitable fabrics.

430. Home Furnishings. Spring. (4 q. hrs.)

A study of the consumer's problems in the selection of home furnishings. Making of draperies, slip covers, and the upholstering of furniture is included in the laboratory work.

431. Textiles and Senior Seminar. Winter and Spring. (4 q. hrs.)

An advanced study of textile fibers, yarns, weaves, and finishes. Current trends and research in home economics.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

502. Independent Study in Home Economics. Every quarter. (2-4 q. hrs.)

To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered.

542. Workshop in Curriculum Development. Summer, Winter. (2-4 q. hrs.)

Theoretical background and experimental approaches to curriculum improvement.

560. Supervision in Home Economics. Winter. (4 q. hrs.)

The role of the supervising teacher; problems of orientation, guidance and evaluation.

564. Professional Issues and Developments. Fall. (4 q. hrs.)

A seminar dealing with the current and emerging problems in the field of home economics and with those changes in society which affect education for family living.

570. Evaluation in Home Economics. Spring. (4 q. hrs.)

Development and critical evaluation of instruments designed to measure pupil growth.

595. Thesis. (4 q. hrs.)

Individual direction of research thesis writing.

**SCHOOL OF INDUSTRIAL
ARTS AND TECHNOLOGY**

Industrial Arts 299

Industrial Technology 306

INDUSTRIAL ARTS**UNDERGRADUATE COURSES**

Note: Courses in Industrial Arts are classified for curriculum selection as follows:

Orientation and Professional: 141, 340

Crafts: 129, 224, 225, 447, 452

Electronics: 116, 216, 217, 447

Graphic Arts: 111, 212, 311, 312, 313, 315, 412, 447

Graphics: 101, 104, 201, 202, 205, 301, 302, 303, 405, 447

Metals: 106, 306, 307, 308, 310, 409, 447

Woods: 121, 222, 321, 322, 323, 423, 447

101. Basic Engineering Drafting. Fall, Winter, Spring. (4 q. hrs.)

Introduction to graphics in industry, basic graphical techniques and projection theories, basic spatial relationships and classifications, specifications, conventional practices, and topographic drafting. Two hours lecture and 4 hours laboratory per week. Required of all majors.

104 (131). Engineering Graphics. Winter, Spring. (4 q. hrs.)

Work in multiview, graphs, isometric drawing and isometric projection, oblique projection, sectional views, and dimensioning. Fundamental concepts of descriptive geometry. For pre-engineering students. Three hours lecture and three hours laboratory each week.

106 (140). Metals in Technology. Fall and Winter. (4 q. hrs.)

The properties, extractive processes and commercial applications of common metals. Emphasis on design and manufacture of commercial products as influenced by cutting, forming, fabricating and foundry technology. Two hours of lecture and four hours of laboratory per week.

111. Survey of the Graphic Arts. Fall, Winter, Spring. (4 q. hrs.)

A survey of the graphic arts and allied industries. Study of raised, flat, recessed, and porous surface image transfer. Laboratory experiences, information regarding industrial procedures, occupations, and graphic arts education. Two classroom and four hours laboratory per week.

116 (150). AC and DC Circuits. Every quarter. (4 q. hrs.)

This course presents a comprehensive study of direct and alternating current circuits. It includes the study of theory and problem solving with practical laboratory application of voltage, current and power in relation to resistance, capacitance and inductance in series, parallel and complex circuits.

Two class discussions and four hours of laboratory each week.

Prerequisite: High school or college algebra and trigonometry.

121 (134). Woods in Technology. Every quarter. (4 q. hrs.)

Function, care, and use of woodwork hand tools, woodwork supplies, and finishes. Two class discussions and four hours of laboratory each week.

129. Industrial Crafts. Winter. (4 q. hrs.)

Study of the development, concepts, and selected processes through lectures and laboratory experiences in casting, cutting, molding, fabrication, fastening, and decoration in various media. Two classroom and four laboratory hours per week.

141. Orientation to Study of Industrial Education. Fall and Spring. (4 q. hrs.)

A study of the origin and development of American Industry with specific implications for employment opportunities in general and vocational programs of industrial education plus the organization and administration of such programs.

Required of all industrial arts majors and minors.

201. Introduction to the Slide Rule. Winter. (2 q. hrs.)

A study of the theory of sliding scale and scale construction, with emphasis on use of the slide rule as an aid to solution of technical computations. Three hours lecture-laboratory per week.

Prerequisite: Slide rule must be furnished by student.

202. Fabrication Drafting and Analysis. Winter, Spring. (4 q. hrs.)

A study of current industrial fabrication methods used in sheet metal welding, structural and pre-fabrication units. Emphasis on drafting techniques, methods and standards used in industrial fabrication drafting rooms. Three hours lecture and three hours laboratory each week.

Prerequisite: Industrial Arts 101 and proficiency in high school algebra and trigonometry or college algebra and trigonometry.

205. Industrial Arts Design. Fall and Winter. (4 q. hrs.)

Introduction to applied design, history and philosophy of applied design, methodology and essentials of design as applied to project selection in the industrial arts laboratory. Four hours lecture per week.

Required of all majors and minors.

Prerequisite: Industrial Arts 101.

212. Survey of Photo-Offset Lithography. Winter. (4 q. hrs.)

Laboratory experiences and instruction in design planning, and layout; image assembly, photo-conversion; image carrier preparation; and ink transfer. Study of photo-offset lithography materials and supplies. Two classroom and four hours of laboratory per week.

Prerequisite: Industrial Arts 111 or permission of the instructor.

216 (300). Basic Vacuum Tube Circuits. Spring. (4 q. hrs.)

The study of basic tube type electronic devices and circuits. Emphasis is placed on the diode, triode, tetrode, pentode and special purpose tubes. The student will make a descriptive, graphic and equivalent circuit approach to the study of tubes and their application to rectification and amplification with related reference to oscillators, detectors and converters. Two classroom and four hours of laboratory per week.

Prerequisite: Industrial Arts 116.

217 (117). Basic Semi-Conductor Circuits. Fall and Spring. (4 q. hrs.)

This is a beginning course in the study of the basic transistor type electronic devices and circuits. Emphasis is placed on the PN diode, NPN and PNP transistor and special purpose semi-conductor devices. The student will make a descriptive, graphic and equivalent circuit approach to the study of transistors and their applications to rectifiers and amplifiers, with related information to oscillators, detectors, switches, etc. Two class discussions and four hours of laboratory each week.

Prerequisite: Industrial Arts 116.

222 (122). Basic Fabrication of Woods. Winter and Spring. (4 q. hrs.)

Continuation of Industrial Arts 121 (134): Study and use of power woodwork equipment. Two class discussions and four hours of laboratory each week.

Prerequisite: Industrial Arts 121.

224. Primary Grade Industrial Arts. Every quarter. (4 q. hrs.)

Dissemination of subject matter information; laboratory experiences with industrial materials as a teaching device in the lower grades. Two lectures and four hours of laboratory per week.

Not open to industrial arts majors.

225. Intermediate Grade Industrial Arts. Fall and Winter. (4 q. hrs.)

Laboratory experiences and informational content concerning industrial crafts for intermediate grade level. Two lectures and four hours of laboratory per week.

Not open to industrial arts majors.

301 (380). Architectural Planning and Analysis. Fall. (4 q. hrs.)

Neighborhood planning as it affects residential districts, cost factors in house construction, architectural services, architectural styles, interior planning, and mechanical considerations. Application of basic engineering principals to residential architecture. A house is planned and presentation drawings are prepared. Three hours lecture and three hours of laboratory per week.

302 (382). Architectural Drafting and Design. Winter. (4 q. hrs.)

A continuation of Industrial Arts 301. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Two class discussions and four hours of laboratory each week.

Prerequisite: Industrial Arts 301.

303. Production Drafting and Design. Spring. (4 q. hrs.)

A study of industrial drafting practices, production shop processes, standard machine elements, precision dimensioning for production, standards and manuals used in production drafting, and a comprehensive study of uses and construction of production drawings as a means of graphic communication. Three hours lecture and three hours of laboratory each week.

Prerequisite: Industrial Arts 101, proficiency in high school algebra and trigonometry or Mathematics 130, 131.

306 (352). Metal Machining Processes. Fall and Winter. (4 q. hrs.)

The major chip removal methods of machining common commercial metals. Emphasis on the machining processes involving the lathe, mill, shaper, drill and grinder. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 106 and Mathematics 126 or 130.

307 (354). Production Metal Machining Processes. Winter and Spring. (4 q. hrs.)

Methods and procedures of quantity production of multiple parts. Laboratory experiences involving techniques of design, fabrication and production. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 306 and Industrial Arts 303.

308 (356). Advanced Metal Working Processes. Spring. (4 q. hrs.)

Special areas of metal work involving metal casting, tool and cutter grinding, chipless machining processes, numerical control, equipment selection and maintenance, power and control systems. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 306.

310 (326). Forming and Fabricating of Sheet Materials. Fall. (4 q. hrs.)

The methods of forming and fabricating sheet materials with emphasis of design and layout principles. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 106.

311 (361). Linecasting Machine Functions. (Omitted 1969-70.) (4 q. hrs.)

Laboratory experiences in care, maintenance, and operation of line casting machines. Straight, mixed, tabular composition activities. Two classroom and four hours of laboratory per week.

Prerequisite: Industrial Arts 111.

312 (360). Letterpress Printing. Fall. (4 q. hrs.)

Laboratory experiences in automatic platen and cylinder imposition, lockup, and ink transfer. Materials, maintenance, estimating and production problems. Two classroom and four hours of laboratory per week.

Prerequisite: Industrial Arts 111.

313. Graphic Arts Technology. Spring. (4 q. hrs.)

A study of the technologies of modern graphic arts. Production of books, magazines, newspapers. Comparison of papers, inks, plates. Computer implications for typesetting, quality control, inventory, personnel. Relationship of labor and industry. Limited laboratory experiences in practical application of graphic arts technology. Four classroom periods per week.

Prerequisite: Industrial Arts 111.

315. Graphic Arts for Journalists. Spring. (4 q. hrs.)

A study of the graphic arts and allied industries. Laboratory experiences

in the application of printing materials and equipment to newspaper and commercial graphic arts production. Information regarding new trends and developments in graphic arts. Restricted to journalism majors and minors. Two classroom and four hours of laboratory per week.

321 (265). Woodfinishing. Winter. (2 q. hrs.)

Discussion periods: preparation of surfaces to be finished, bleaches, stains, fillers, resinous finishes, wipe-on finishes and refinishing. One class discussion and three hours of laboratory per week.

Laboratory; experimenting with a variety of finishes applied by various methods to a variety of woods.

322 (375). Woodturning. Winter. (2 q. hrs.)

Operation and care of wood lathes; spindle and faceplate turning. One class discussion and three hours of laboratory each week.

Prerequisite: Industrial Arts 323.

323 (336). Production Wood Technology. Fall and Spring. (4 q. hrs.)

Furniture and cabinet making with woodwork machines; care and adjustment of machines; spray finishing; planning laboratory activities. Two class discussions and four hours of laboratory each week.

Prerequisites: Industrial Arts 101, 222, and 321. The student pays for materials used in this course.

340. Methods of Teaching Industrial Arts. Fall, Winter, Spring. (4 q. hrs.)

The selection, organization, and preparation of instructional content for class and laboratory use. Application of appropriate principles of teaching. For majors and minors.

Prerequisite: Six industrial arts laboratory courses. Admission to teacher education and junior standing.

405. Graphical Industrial Illustration. Winter. (4 q. hrs.)

Graphical representation of statistical data, an in-depth study of pictorial projection and drawing theory as applied to industrial uses, application of pictorial illustration and principals of rendering pictorial drawings. Three hours lecture and three hours of laboratory each week.

Prerequisite: Proficiency in Industrial Arts 202.

409 (420). Welding Technology. Spring. (4 q. hrs.)

The technology of welding processes with emphasis on the common welding techniques involving oxy-acetylene and electric arc equipment. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 106.

412. Offset Ink Transfer. (Omitted 1969-70.) (4 q. hrs.)

Application of feeding, dampening, inking, impression, and delivery systems. Adjustment and maintenance of each system and auxiliary components. Use of densitometers, micrometer, meters, gauges. Single, multiple, duotone, four-color offset printing. Two classroom and four hours of laboratory per week.

Prerequisite: Industrial Arts 212 or concurrent enrollment.

423 (444). Tool Maintenance. (Omitted 1969-70.)

Reconditioning and care of hand and power operated saws, straight edge cutting tools, and wood boring tools. One class discussion and three hours of laboratory each week.

Prerequisite: Industrial Arts 323.

447. Independent Study. Arranged. (4 q. hrs.)

Technical investigation involving experimental laboratory work and a written report of findings. Area of study must be approved by instructor before registration for course.

Prerequisite: Industrial Arts major of senior standing. Student pays for needed materials not available from department supplies.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**451. Organization of Subject Matter.** Arranged. (4 q. hrs.)

A continuation of Industrial Arts 340 involving advanced work in the preparation of instructional material with a view of providing for the conceptual approach in teaching. Graduate student must write a course paper.

Prerequisite: Industrial Arts 340.

452. Recreational Crafts. Winter. (4 q. hrs.)

A study in depth of contemporary crafts involving technical information and laboratory experiences. Students taking this course for graduate credit will conduct a substantial investigation. Two lectures and four hours of laboratory per week.

453. Applied Descriptive Geometry. (Omitted 1969-70.) (4 q. hrs.)

The application of engineering drafting principles to the solution of advanced spatial problems. Advanced spatial projection theories, spatial relationships and geometry of points, lines and planes; parallel, angular and perpendicular relationships; and problem solution by rotation.

Prerequisite: Industrial Arts 101.

458. History of Vocational Industrial Education. Fall. (4 q. hrs.)

A course in the history, organization and administration of vocational industrial education. Federal and State laws affecting industrial arts and vocational programs.

461. Photo-Conversion Procedures. Summer. (4 q. hrs.)

Black-and-white and color copy preparation, photo-conversion, film processing. Use of exposure computer, transmission densitometer. Photo image assembly, step-and-repeat systems. Offset stripping for black-and-white and color. Lithographic materials, supplies, equipment. Four classroom periods per week, opportunity laboratory.

Prerequisite: Industrial Arts 212 or permission of instructor.

491. Occupational Analysis. Spring. (4 q. hrs.)

A study of the procedures and techniques involved in analyzing occupations into their specific components or elements. The development of course instructional material is included.

Prerequisite: Senior standing.

492 (561). Course Making in Industrial Arts. (Omitted 1969-70.) (4 q. hrs.)

The horizontal and vertical approach is used. The student is required to construct at least one complete course outline and evaluate it against accepted criteria.

Prerequisite: Senior standing.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Graphic Arts in a Changing Culture. Fall. (4 q. hrs.)

Offered as a cultural course in the graduate program. Develops an appreciation of the importance of graphic arts through discussion, laboratory experiences, field trips and appropriate audio-visual presentations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Achievement Evaluation in Industrial Arts. (Omitted 1969-70.) (4 q. hrs.)

Kinds and types of evaluating instruments; principles of test construction; and construction of several tests. The evaluation of laboratory work is considered.

565. Philosophy of Practical Arts Education. Winter. (4 q. hrs.)

Sociological principles, theories, and beliefs which have contributed to present educational practices; relationships of practical arts education, vocational education, and general education; philosophical considerations underlying current vocational education programs.

570. Design and Construction in Industrial Arts. (Omitted 1969-70.) (4 q. hrs.)

Preparation of idea drawings for laboratory activities to meet educational needs of the several ability levels of students now in school. Treatment of principles of selection of construction methods.

Prerequisite: Industrial Arts major including a background in principles of design.

575. Professional Research in Industrial Arts. Arranged. (4 q. hrs.)

Designed for development of instructional aids, devices or problems for teaching industrial education. The plan for research to be undertaken must be approved by the instructor and head of the department. Conference method.

580. Planning of Industrial Arts Laboratory. (Omitted 1969-70.) (4 q. hrs.)

A study of the physical facilities and equipment needs for teaching industrial arts, an opportunity is provided for planning new laboratories or re-designing those now in use. Two class discussions and four hours of laboratory each week.

595. Thesis. (4 q. hrs.)**INDUSTRIAL TECHNOLOGY****304 (204). Engineering Geometry and Graphics.** Spring. (4 q. hrs.)

Perspective drawing, sketching and illustration; advance spatial geometry with emphasis on solution of engineering and technical problems involving points, lines and planes; parallel, angular and perpendicular relationships; problem solution by rotation; empirical equations; geometry of plane and space vectors; and graphical calculus. Three hours lecture and three hours laboratory per week.

Prerequisite: Proficiency in Industrial Arts 101, Mathematics 134.

305 (205). Light Building Surveying. Arranged. (2 q. hrs.)

Introduction to transits, levels, measuring tools and equipment. Fundamentals of surveying, computing, and plotting. Selected field work in location, elevation, and land surveys. Four hours of laboratory per week.

Prerequisite: Proficiency in Industrial Arts 101, Mathematics 131.

316. Communications Circuits and Systems. Winter. (4 q. hrs.)

Advanced study of electronic systems, using tubes or transistors and basic components. Emphasis on functioning applications of electronics, power supplies, audio amplifiers, transmitters and receivers. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 216 and 217 or permission of instructor.

370. Industrial Mechanisms. Winter. (4 q. hrs.)

Applied mechanics of machinery including gearing, belting, cams, hydraulics, pneumatics and other power transmitting systems. Two hours of lectures and four hours of laboratory per week.

Prerequisite: Physics 130 and Mathematics 131.

400. Applied Strength of Materials. Fall. (4 q. hrs.)

Experimental analysis of the mechanical properties of industrial materials. Tensile, compressive, torsional, and flexural strength of such materials as woods, metals, plastic and concrete. Analysis of simple and combined stresses and properties of materials to meet functional design criteria in such elements

as riveted joints, beams, columns, shafts, and keys. Two hours of lectures and four hours of laboratory per week.

Prerequisite: Mathematics 134, Industrial Arts 306, 222 and 116.

401. Office Practice and Specifications. Arranged. (2 q. hrs.)

The fundamentals of office management and procedures. The essentials of design, labor, specifications, fabrication and other factors as applied to light building construction. Emphasis on finance, personnel and legal aspects.

402. Cost Estimating. Arranged. (2 q. hrs.)

The fundamentals of cost estimating for the light building construction industry. Procedures and methods in estimating costs of materials, labor, time and fabrication. Two hours lecture per week.

Prerequisite: Industrial Arts 301, 302.

404. Statistical Quality Assurance. Spring. (4 q. hrs.)

Statistical techniques used in the control of quality requirements of manufactured articles. Sampling techniques; use of inspection tools and instruments; construction, interpretation and use of control charts. Two hours of lecture and four hours of laboratory per week.

Prerequisites: Mathematics 134, Industrial Arts 306 and Industrial Technology 400.

416. Industrial Electronics. Winter. (4 q. hrs.)

Advanced study of theory and laboratory experiences of industrial control. Applications to such items as control of temperature, sound, light, humidity, fluid, air, time, frequency and other mechanical and electrical applications. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Technology 316.

417. Instrumentation and Control. Spring. (4 q. hrs.)

A practical course on instrumentation, measurement process, basic tests, characteristics and capabilities of electronic instruments. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Technology 316.

424. Light Building Fabrication. Spring. (4 q. hrs.)

Methods, materials, and procedures in the light building construction industries. Three hours of lecture and two hours of laboratory per week.

Prerequisite: Industrial Arts 222, 301, 302.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Physical Metallurgy. Spring. (4 q. hrs.)

Mechanical testing, metal structure metallurgical examination, plastic deformation, heat treatment, wear, corrosion, welding, and powder and foundry metallurgy of ferrous and non-ferrous alloys. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Technology 400.

464. Principles of Metal Casting. Summer 1969, Winter. (4 q. hrs.)

Equipment, materials and processes of the casting industry. Procedures and control of casting production, melting techniques, sand testing, casting design, and casting defect analysis. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 307 or 308.

SCHOOL OF MUSIC

The School of Music is a member of the National Association of Schools of Music. Membership in this Association is granted to schools which can show evidence of permanence and stability and which meet in full the standards of the Association for all the music curricula offered by the institution. The School of Music is also fully accredited by the North Central Association of Colleges and Secondary Schools and the National Council for the Accreditation of Teacher Education.

AUDITIONS

All new undergraduate students planning to elect a major in music are expected to demonstrate sufficient ability and skill in music either by audition in person or by tape recording in advance of registration. All transfer students should take the advisory-orientation examination in music theory. See the Director of the School of Music.

Note: Undergraduate courses in music are classified for curriculum selection as follows:

Studies in Performance and Composition (Applied Music): 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 126, 127, 128, 136, 137, 138, 146, 147, 148, 200, 201, 203, 204, 205, 226, 227, 228, 236, 237, 238, 246, 247, 248, 380, 381

Music Ensembles: 100, 101, 102, 103, 250, 251, 252, 472

Music Theory and Composition: 021, 120, 130, 131, 132, 221, 222, 230, 231, 232, 347, 348, 447, 448, 454, 459, 461, 462

Music Literature and History: 151, 152, 225, 229, 320, 321, 322, 351, 352, 353, 464, 467, 468, 469, 470, 471, 474

Music Education: 240, 243, 244, 245, 328, 338, 339, 340, 362, 432, 460, 463, 465, 466

Note: Graduate courses in music are classified for curriculum selection as follows:

Studies in Performance and Composition (Applied Music): 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 516, 578

Music Theory and Composition: 517, 571

Music Literature and History: 530, 536, 540, 541, 542, 543, 551, 581, 584, 585, 588, 589, 590, 591

Music Education: 513, 514, 520, 528, 555, 556, 557, 560, 561, 562, 563, 572, 573

Research: 545, 546, 566, 580, 595

MUSIC**UNDERGRADUATE COURSES**

- *001. Voice. Every quarter. (1 or 2 q. hrs.)
- *002. Flute. Every quarter. (1 or 2 q. hrs.)
- *003. Oboe. Every quarter. (1 or 2 q. hrs.)
- *004. Clarinet. Every quarter. (1 or 2 q. hrs.)
- *005. Bassoon. Every quarter. (1 or 2 q. hrs.)
- *006. Saxophone. Every quarter. (1 or 2 q. hrs.)
- *007. Trumpet. Every quarter. (1 or 2 q. hrs.)
- *008. Cornet. Every quarter. (1 or 2 q. hrs.)
- *009. Horn. Every quarter. (1 or 2 q. hrs.)
- *010. Trombone. Every quarter. (1 or 2 q. hrs.)
- *011. Baritone. Every quarter. (1 or 2 q. hrs.)
- *012. Tuba. Every quarter. (1 or 2 q. hrs.)
- *013. Percussion. Every quarter. (1 or 2 q. hrs.)
- *014. Violin. Every quarter. (1 or 2 q. hrs.)
- *015. Viola. Every quarter. (1 or 2 q. hrs.)
- *016. Violoncello. Every quarter. (1 or 2 q. hrs.)
- *017. String Bass. Every quarter. (1 or 2 q. hrs.)
- *018. Piano. Every quarter. (1 or 2 q. hrs.)
- *019. Organ. Every quarter. (1 or 2 q. hrs.)
- *020. Harpsichord. Every quarter. (1 or 2 q. hrs.)
- *021. Composition. Every quarter. (1 or 2 q. hrs.)
- **100. Band. Every quarter. (No credit.)
- **101. Chorus. Every quarter. (No credit.)
- **102. Orchestra. Every quarter. (No credit.)
- **103. Recital. Every quarter. (No credit.)

120. Basic Music for Classroom Teachers. Every quarter. (4 q. hrs.)

A study of basic music theory through aural analysis and musical notation. Emphasis is placed on ear training, singing by ear and from notation, rhythmic responsiveness and keyboard harmony.

For elementary and junior high majors.

* May be repeated for credit until requirements are met. A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., B.S. in Ed. secondary applied, B.S., or B.A.—1 q. hr. and B.S. in Ed. primary applied—2 q. hrs.

** It is required that all students with a major in music reserve the Float B period on Tuesdays for music convocations and recitals.

126, 127, 128. Class Instruction in Piano. 126—Fall and Winter; 127—Every quarter; 128—Every quarter. (1 q. hr. for each course.)

A beginning course for students without previous piano study.

130, 131, 132. Music Theory. Fall, Winter and Spring. (4 q. hrs. for each course.)

The study of scales, modes, intervals, basic harmony, rhythm, and key relationships. Aural understanding is developed through dictation and sight singing.

Must be taken in sequence.

136, 137, 138. Class Instruction in Voice. Fall, Winter and Spring. (1 q. hr. for each course.)

Beginning vocal instruction for all not assigned to studio instruction. Emphasis is placed upon the attainment of good vocal habits and the ability to sing musically.

146, 147, 148. Class Instruction in Strings. Fall, Winter, Spring. (2 q. hrs. for each course.)

151, 152. Preliminary Survey of Music. 151—Fall and Spring; 152—Winter. (2 q. hrs. for each course.)

An introduction to selected important works of music literature embracing the periods from the renaissance through the twentieth century, with special emphasis on aural and visual recognition of forms, textures, and styles.

Must be taken in sequence. 151 required of all music majors.

200. Class Instruction in Clarinet, Flute and Saxophone. Winter and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

201. Class Instruction in Oboe and Bassoon. Winter and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

203. Class Instruction in Percussion. Winter and Spring. (2 q. hrs.)

A study of beginning technique, including methods of teaching.

204. Class Instruction in Trumpet and French Horn. Fall, Winter, and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

205. Class Instruction in Trombone, Baritone and Tuba. Winter and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

221, 222. Fundamentals of Music. 221—Fall and Winter. 222—Winter and Spring. (4 q. hrs. for each course.)

These courses are a continuation of Music 120. Emphasis is placed on

basic music theory and those fundamental musical skills and understandings needed to develop the degree of competence necessary to teach general music in the elementary classroom.

Prerequisite: Music 120. Required of elementary majors with an Area I or II concentration in music. Must be taken in sequence.

225. Music Literature for Elementary Teachers. Every quarter. (4 q. hrs.)

This course is designed to develop skills in listening to and understanding major forms and styles of Western Music which are especially suitable for use in the elementary general music program.

Prerequisite: Music 120 or equivalent. Required of elementary majors with an Area I or II concentration on music.

226, 227, 228. Class Instruction in Piano. 226—Fall and Winter; 227—Winter and Spring; 228—Spring. (1 q. hr. for each course.)

An intermediate course for students with previous piano study. Emphasis is placed on practical piano skills, piano technique, and interpretation of standard piano literature of an intermediate level.

Prerequisite: Music 128 or permission of instructor.

229. Introduction to Music Literature. Every quarter. (4 q. hrs.)

A study is made of various types and forms of music as a means of increasing the student's awareness and understanding in listening to music. Representative selections from the great masterpieces of music are made familiar through listening and analysis.

Not open to music majors or minors.

230, 231, 232. Music Theory. Fall, Winter and Spring. (4 q. hrs. for each course.)

A study of the construction and manipulation of the materials of music composition, including harmonic and contrapuntal procedures and development of aural skills.

Prerequisite: Music 132. Must be taken in sequence.

236, 237, 238. Class Instruction in Voice. Fall, Winter and Spring. (1 q. hr. for each course.)

The second year of vocal study designed for students whose secondary medium is voice, and students desirous of intermediate vocal instruction not qualified for private lessons.

Prerequisite: Music 136, 137, 138 (or equivalent), or permission of instructor.

240. Laboratory in Music Education. Every quarter. (2 q. hrs.)

A laboratory course with emphasis on direct observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.

243, 244, 245. Vocal Diction. Fall, Winter, Spring. (1 q. hr. for each course.)

A course designed for voice majors and those whose performance principal

is keyboard under Vocal Option; concerned with problems of pronunciation, meaning, dictionary use, and communication in the singing of English, Italian, German, and French.

Prerequisite: Applied voice, Music 001, (or equivalent).

246, 247, 248. Basic Keyboard Skills. Fall, Winter and Spring. (1 q. hr.)

These courses are designed to develop basic skills in transposition, harmonization and extemporaneous accompaniment of melodies, and sight reading at the keyboard.

250 (210-11-12, 310-11-12, 410-11-12). Ensemble, Band. Every quarter.

(1 q. hr. May be repeated for a maximum of 9 q. hrs.)

251 (256-7-8, 356-7-8, 456-7-8). Ensemble, Chorus. Every quarter.

(1 q. hr. May be repeated for a maximum of 9 q. hrs.)

252 (256-7-8, 356-7-8, 456-7-8). Ensemble, Orchestra. Every quarter.

(1 q. hr. May be repeated for a maximum of 9 q. hrs.)

320. History and Literature of Music. Fall. (4 q. hrs.)

The development of music from the ancient times through the renaissance.

Not open to music majors or minors.

321. History and Literature of Music. Fall and Winter. (4 q. hrs.)

Music from the baroque through the classical period.

Not open to music majors or minors.

322. History and Literature of Music. Winter and Spring. (4 q. hrs.)

Music from the romantic period to the present.

Not open to music majors or minors.

328. Music in Elementary Schools. Fall, Winter, and Spring. (4 q. hrs.)

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Music 120. For elementary education majors.

338. Music in the Allied Arts. Spring. (4 q. hrs.)

A study of the arts and thesis function, formal and expressive elements, and principles of organization. The emphasis is on the study of music and the function of music as it relates to the other arts.

Open only to music majors and minors.

Prerequisite: One course in philosophy and two courses in each of the following areas: art history and appreciation; English literature; history; music history and literature; and music theory.

339. Methods of Teaching Vocal Music in Elementary Schools. Winter.

(4 q. hrs.)

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Admission to teacher education.

340. Methods of Teaching Music in Secondary Schools. Fall. (4 q. hrs.)

This course deals with the music instruction program in both junior and senior high schools. Its primary focus is on the general music class plus other specialized classes not having performance as their primary concern.

Prerequisite: Admission to teacher education and junior standing.

347. Orchestration. Fall. (4 q. hrs.)

Practical experience in scoring the string and wind instruments for public school music groups. Standard scores serve as a guide for study.

348 (547). Advanced Orchestration. (Omitted 1969-70.) (4 q. hrs.)

A study of instruments of the orchestra and their usage in orchestral writing. The course serves as an aid to interpretation of music and builds a knowledge of the advanced techniques in writing for instruments.

351. History and Literature of Music. Fall. (4 q. hrs.)

Development of music from ancient times through the renaissance period.

Open only to music majors and minors.

352. History and Literature of Music. Winter. (4 q. hrs.)

Development of music from the baroque through the classic periods.

Open only to music majors and minors.

353. History and Literature of Music. Spring. (4 q. hrs.)

Development of music from the romantic period to the present.

Open only to music majors and minors.

362. Piano Pedagogy. Fall. (4 q. hrs.)

A study of the problems of teaching piano for both individual and class lessons. An understanding of the piano mechanism, history of piano techniques, sight reading, memorization, etc., are included. A survey of piano teaching materials is made.

Prerequisite: Two years of applied piano.

380. Choral Conducting and Materials. Fall. (4 q. hrs.)

A study of conducting techniques, organizations, score reading and interpretations essential to working effectively with vocal ensembles. Materials for use in the public school music program are studied. The class also serves as a laboratory chorus.

381. Instrumental Conducting and Materials. Winter. (4 q. hrs.)

A study of baton technique, score reading and rehearsal routine. Materials for use in the public school music program are studied and appropriate literature for chamber groups, orchestra and band are included.

432. Psychology of Music. (Omitted 1969-70.) (4 q. hrs.)

Analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements of the psychology of music in a teaching situation.

447. Analysis and Form in Music. Winter. (4 q. hrs.)

A study of the structure of music, the elements of musical form, and the relationship between structure (form) and content.

Prerequisite: Music 232.

448. Analysis and Form in Twentieth Century Music. (Omitted 1969-70.) (2 q. hrs.)

A study of musical structure in the twentieth century. Particular attention will be paid to the balance between tradition and innovation in the music studied.

Prerequisite: Music 447.

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS**454. Choral Arranging.** Spring. (4 q. hrs.)

A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations.

Prerequisite: Music 232.

455. Band Arranging. Spring. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public school. Group needs are analyzed and projects are prepared and performed by special ensembles.

459. Stage Band Arranging. Spring. (4 q. hrs.)

A course dealing with the basic problems and techniques involved in arranging for a stage band. Projects are prepared and performed.

Prerequisite: Music 232 or equivalent.

460. Marching Band Procedure. Fall. (2 q. hrs.)

Rudiments of marching and playing in field maneuvers. Training the band in pageantry and formations is accomplished through laboratory experiences.

461 (510). Sixteenth Century Counterpoint. (Omitted 1969-70.) (4 q. hrs.)

A basic study of music techniques in polyphonic music. Sixteenth century counterpoint is treated and the style includes that of Palestrina and the English madrigal.

Prerequisite: Music 232.

462 (511). Eighteenth Century Counterpoint. (Omitted 1969-70.) (4 q. hrs.)

A study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale.

Prerequisite: Music 232.

463 (526). Administration of Instrumental Organizations. Summer. (2 q. hrs.)

This course aims to prepare the student for administrative problems which apply particularly to the instrumental teacher and which lie beyond the area of pedagogy.

464. Church Music. Winter. (4 q. hrs.)

A study of performance problems in the basic sacred works along with a survey of the liturgy and music from early times through the twentieth century.

465. Techniques for Developing and Training Stage and Dance Bands in the High School. Winter. (2 q. hrs.)

A course dealing with basic problems in organization development, and training of the high school stage and dance band.

Prerequisite: Music 200, 204, or permission of instructor.

466 (531). Principles of Singing. Winter. (4 q. hrs.)

A consideration of the processes involved in voice production: respiration, phonation, articulation, and resonance. The psychological, physiological, and acoustical problems involved in the teaching of singing.

467. English and Italian Song Literature. (Omitted 1969-70.) (2 q. hrs.)

The study of the English and Italian song literature from the seventeenth century to the present. The works under study will be translated, analyzed and performed. The course is designed for the advanced vocal option but may be elected by other qualified students.

Prerequisite: Music 243 or permission of the instructor.

468. German Song Literature. Summer. (2 q. hrs.)

The study of the German lied of the eighteenth, nineteenth and twentieth centuries. The works under study will be translated, analyzed, and performed. The course is designed for the advanced vocal option but may be elected by other qualified students.

Prerequisite: Music 244 or permission of the instructor.

469. French and Spanish Song Literature. Fall. (2 q. hrs.)

The study of the French and Spanish song literature of the nineteenth and twentieth centuries. The works under study will be translated, analyzed and performed. The course is designed for the advanced vocal option but may be elected by other qualified students.

Prerequisites: Music 243 and 245 or permission of the instructor.

470 (586). Music in the Classic Era. (Omitted 1969-70.) (4 q. hrs.)

A critical appraisal of selected music by Classical composers, including representative genres, styles and media and emphasizing distinctively Classic stylistic features.

Prerequisite: Music 351, 352, 353.

471 (587). Music in the Romantic Era. (Omitted 1969-70.) (4 q. hrs.)

A critical appraisal of selected music by Romantic composers, including representative genres, styles, and media emphasizing distinctively Romantic stylistic features.

Prerequisite: Music 351, 352, 353.

472 (372, 373). Opera Workshop. Summer, Winter, Spring. (2 q. hrs.)

The study and performance of opera roles and selected opera scenes. Class participation will involve staging, acting, costuming, and singing. Can be taken only with the permission of the instructor. May be taken for credit up to four times by an undergraduate. May be taken for credit twice by a graduate.

474 (532). Symphonic Literature. (Omitted 1969-70.) (4 q. hrs.)

A survey of orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romantics, the National schools, and late European and American developments.

480. Workshop in Music. Summer. (1 q. hr.)

Concentrated work in literature techniques, pedagogical problems and style of the various media in music. The course may be offered in piano, voice, orchestral or band instruments, and ensemble. The course is one week in duration.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

513. Band Literature for the Public Schools. (Omitted 1969-70.)
(2 q. hrs. for each course.)

The literature of the high school band is included as well as training materials for beginning groups. Materials are analyzed and surveyed in view of needs and interests. Training as well as cultural materials are included.

514. Materials of the Orchestra. (Omitted 1969-70.) (2 q. hrs.)

Materials of the elementary school and high school orchestra and the more mature groups are treated. Literature is studied with view of training values as well as for performance practice.

516. Advanced Conducting and Performance Practices. (Omitted 1969-70.)
(4 q. hrs.)

A study of the styles of choral, band, and orchestra literature as they pertain to the problems of the conductor. The student concentrates in the area of his special interest.

Prerequisite: Music 380 or 381.

517. Analytical Techniques. Winter. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 447.

520. Teaching Music Theory. (Omitted 1969-70.) (4 q. hrs.)

Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.

528. Aesthetics of Music. (Omitted 1969-70.) (4 q. hrs.)

A study of man's search for beauty through musical experience; the meaning and value of beauty in music as realized by creator, performer, and listener throughout various historical periods.

530. Chamber Music Literature. (Omitted 1969-70.) (4 q. hrs.)

Survey of the literature of chamber music, quartet, trio, quintet, etc., in various instrumental combinations. The literature is presented through analysis of formal structure and aesthetic values.

536. Opera and Oratorio. (Omitted 1969-70.) (4 q. hrs.)

A study of selected opera and oratorio literature from Monteverdi to the present day.

540. Keyboard Literature of the Baroque Era. Winter. (2 q. hrs.)

A study of the literature of the stringed keyboard instruments from the beginning of this music through 1750.

541. Keyboard Literature of the Classic Era. Spring. (2 q. hrs.)

A study of the piano literature by the sons of Bach, Haydn, Mozart, Clementi, and Beethoven.

542. Keyboard Literature of the Romantic Era. (Omitted 1969-70.) (2 q. hrs.)

A study of the piano literature of Schubert, Mendelssohn, Schumann, Chopin, Liszt, and Brahms.

543. Keyboard Literature of the Twentieth Century. Fall. (2 q. hrs.)

A study of the piano literature of leading composers in Europe, America, and South America.

545, 546. Independent Study in Music. Every quarter. (1-4 q. hrs. for each course.)

Advanced work on a topic or problem selected by the student. Student must submit an outline of his plan of work to the Director of the School of Music for approval and assignment to an instructor.

551. Music in Contemporary Culture. (Omitted 1969-70.) (4 q. hrs.)

Emphasis is placed upon developing judgments and perception through study of ideas and forces which influence composers, comparative listening, discussion and writing about music.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555. Teaching Technique of Strings. (Omitted 1969-70.) (2 q. hrs.)

An advanced course in the teaching of string instruments. It is designed to give the teacher of music a course which will strengthen his knowledge of methods, techniques, and training literature for public school teaching.

556. Teaching Techniques in Woodwinds. (Omitted 1969-70.) (2 q. hrs.)

An advanced course in woodwind instruments. It is designed to give the

teacher of music advanced techniques in teaching materials and methods of the woodwind instruments.

557. Teaching Techniques in Brass and Percussion. Winter. (2 q. hrs.)

Practical work in the advanced techniques of the brass and percussion instruments. Materials and methods pertaining to the instrumental program in the public schools are studied.

560. Music in the Elementary School. Summer. (4 q. hrs.)

The advanced course in the teaching of music in the elementary school deals with the child with reference to the problems of teaching singing, rhythms, creative expression, listening experiences, and preparation for the instrumental program.

561. Methods of Music in Junior and Senior High School. Summer.
(4 q. hrs.)

Curriculum construction, course content, class voice, the general music class, physical facilities, library building, building the program for assemblies in music, community relationships and materials in music are included for detailed study.

562, 563. Foundations and Principles of Music Education.
(Omitted 1969-70.) (4 q. hrs. for each course.)

Systematic treatment of the total music education program through examination of the historical, philosophical and psychological foundations of music education, and development of principles for all aspects of the operation of the music program.

566. Introduction to Research in Music. Fall. (4 q. hrs.)

A study of the scope and characteristics of the areas of music history and literature, composition and theory, performance, and music education, including problems in basic bibliography. Course involves library and research techniques as well as practice in organizing and reporting data.

572, 573. Class Piano Pedagogy and Internship. Fall and Winter.
(4 q. hrs. each course.)

A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes.

Prerequisite: Music 362 or permission of instructor.

578. Performance in Music. Every quarter. (4 q. hrs.)

Areas of special interest in preparation for the performance major.

580. Seminar in the Problems of Music Education. Every quarter.
(2-4 q. hrs.)

The consideration of special problems in music education is planned on an individual basis. Students present individual problems and work on projects under the guidance of members of the music staff.

581. Music of the Twentieth Century. (Omitted 1969-70.) (4 q. hrs.)

The chief musical developments in Western Europe and the Americas from 1900 to the present.

584. Music in the Renaissance Era. (Omitted 1969-70.) (4 q. hrs.)

A critical appraisal of selected music by Renaissance composers, including genres, styles, and media, with particular emphasis on distinctively Renaissance stylistic features.

Prerequisite: Music 351, 352, and 353.

585. Music in the Baroque Era. (Omitted 1969-70.) (4 q. hrs.)

A critical appraisal of selected music by Baroque composers, including representative genres, styles, and media and emphasizing distinctively Baroque stylistic features.

Prerequisite: Music 351, 352, 353.

588, 589. Seminar in Music History. Spring. (4 q. hrs. for each course.)

Intensive study of special topics dealing with the eras of the Middle Ages, Renaissance, and Baroque; Classic, Romantic, and Twentieth Century.

590. History of Music Theory, Greek to 1550. (Omitted 1969-70.) (4 q. hrs.)

An examination of tonal theoretical systems in the western culture from the Greeks to 1550. Included is tuning and temperament, the Greek, ecclesiastical modal, and polyphonic theories through Tinctoris.

591. History of Music Theory, 1550 to Present. (Omitted 1969-70.) (4 q. hrs.)

An examination of tonal theoretical systems in the western culture from 1550 to the present. Included is meantone and equal temperaments.

595. Thesis. (4 q. hrs.)***651. Voice.** Every quarter. (1 or 2 q. hrs.)***652. Flute.** Every quarter. (1 or 2 q. hrs.)***653. Oboe.** Every quarter. (1 or 2 q. hrs.)***654. Clarinet.** Every quarter. (1 or 2 q. hrs.)***655. Bassoon.** Every quarter. (1 or 2 q. hrs.)***656. Saxophone.** Every quarter. (1 or 2 q. hrs.)***657. Trumpet.** Every quarter. (1 or 2 q. hrs.)***658. Cornet.** Every quarter. (1 or 2 q. hrs.)***659. Horn.** Every quarter. (1 or 2 q. hrs.)***660. Trombone.** Every quarter. (1 or 2 q. hrs.)***661. Baritone.** Every quarter. (1 or 2 q. hrs.)***662. Tuba.** Every quarter. (1 or 2 q. hrs.)***663. Percussion.** Every quarter. (1 or 2 q. hrs.)

* A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., M.S. in Ed.—1 q. hr. or M.A.—2 q. hrs. The respective courses may be repeated for a total of 4 q. hrs. in the M.S. in Ed. program and for a total of 8 q. hrs. in the M.A. program.

- *664. Violin. Every quarter. (1 or 2 q. hrs.)
- *665. Viola. Every quarter. (1 or 2 q. hrs.)
- *666. Violoncello. Every quarter. (1 or 2 q. hrs.)
- *667. String Bass. Every quarter. (1 or 2 q. hrs.)
- *668. Piano. Every quarter. (1 or 2 q. hrs.)
- *669. Organ. Every quarter. (1 or 2 q. hrs.)
- *670. Harpsichord. Every quarter. (1 or 2 q. hrs.)
- *671. Composition. Every quarter. (1 or 2 q. hrs.)

STUDIES IN PERFORMANCE AND COMPOSITION (APPLIED MUSIC)

In the major applied field, at least several years of study prior to college entrance are required. Private instruction is offered in composition; strings: violin, viola, violoncello, and contrabass; brasses: cornet, trumpet, French horn, trombone, baritone, and tuba; woodwinds: flute, clarinet, oboe, saxophone, and bassoon; percussion; voice, piano; organ; harpsichord. In the case of organ, the student must demonstrate facility on piano before acceptance.

Applied music courses yield variable credit, depending upon the curriculum elected. For the Bachelor of Arts and Bachelor of Science curricula and the secondary applied for the Bachelor of Science in Education one quarter hour credit shall be given for one-half hour of individual instruction per week and one hour of daily practice; for the Bachelor of Science in Education curriculum for the primary applied two quarter hours of credit shall be given for one hour of individual instruction per week and one hour of daily practice; and for the Bachelor of Music curriculum the student may register for up to four quarter hours of credit for one hour of individual instruction and two hours of daily practice. Courses in composition are also similar in plan.

Courses in any applied subject may be repeated for additional credit. However credit earned in excess of that required for the particular curriculum which the student is pursuing may not be used to satisfy the minimum applied music requirements of that program. Such credit shall be considered as elective.

The student's progress in his principal applied subject shall be evaluated each year by the faculty of the department in which he is enrolled. At the conclusion of the sixth quarter of applied music, all students will be required to take a junior standing examination. A student may not be considered a junior in applied music nor may he present a junior or senior recital without passing this examination.

Minimum applied requirements for the degree B.S. in Ed. are as follows:

Instrumental Music Option

- A. Instrumental Principal (Wind, String, or Percussion)—22 q. hrs.
 Piano—3 q. hrs.
 Voice—3 q. hrs.
- B. Keyboard Principal—22 q. hrs.
 Band or Orchestral Instrument—3 q. hrs.

* A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., M.S. in Ed.—1 q. hr. or M.A.—2 q. hrs. The respective courses may be repeated for a total of 4 q. hrs. in the M.S. in Ed. program and for a total of 8 q. hrs. in the M.A. program.

- C. Composition Principal—22 q. hrs.
 - Piano—6 q. hrs.
 - Voice—6 q. hrs.

Vocal Music Option

- A. Vocal Principal—22 q. hrs.
 - Piano—6 q. hrs.
- B. Keyboard Principal—22 q. hrs.
 - Voice—6 q. hrs.
- C. Composition Principal—22 q. hrs.
 - Piano—6 q. hrs.
 - Voice—6 q. hrs.

General Music Option

- A. Instrumental Principal—16 q. hrs.
 - Piano—3 q. hrs.
- B. Keyboard Principal—16 q. hrs.
 - Voice—3 q. hrs.
- C. Vocal Principal—16 q. hrs.
 - Piano—3 q. hrs.
- D. Composition Principal—16 q. hrs.
 - Piano—3 q. hrs.

Instrumental Music Secondary

- Band or Orchestral Instrument—3 q. hrs.

Vocal Music Secondary

- Voice—3 q. hrs.

A candidate for the degree Bachelor of Music must select a principal applied music medium. Minimum applied music requirements are as follows:

Performance Option

- A. String or Wind Instrument Principal—48 q. hrs.
 - Secondary Piano—3 q. hrs.
- B. Keyboard Principal (Piano or Organ)—48 q. hrs.
- C. Vocal Principal—48 q. hrs.
 - Secondary Piano—6 q. hrs.

Music History-Literature Option

- A. Instrumental or Vocal Principal—24 q. hrs.
 - Secondary Piano—6 q. hrs.

Music Theory-Composition Option

- A. Instrumental or Vocal Principal—24 q. hrs.
 - Secondary Piano—6 q. hrs.

CREDIT ORGANIZATIONS IN MUSIC

The student with a major or minor in music may register after the freshman year for credit in the following ensemble organizations: Band, Chorus, and Orchestra. Elementary education majors may elect a maximum of four

quarter hours of credit in choral ensembles. Generally, students may earn no more than four quarter hours of credit toward graduation in chorus, orchestra, or band. However, music majors and minors may apply a maximum of nine quarter hours of credit toward graduation for such ensemble courses taken.

No more than two quarter hours of credit may be earned in a single quarter regardless of the number of organizations in which the student participates.

Minimum ensemble requirements for music majors for the degree B.S. in Ed. are:

Instrumental Option—6 q. hrs. credit in instrumental organizations. (A student with a keyboard principal may elect either instrumental or choral organizations.)

Choral Option—6 q. hrs. credit in choral organizations.

General Option—3 q. hrs. credit in choral and instrumental organizations.

Minimum requirements for music minors:

Instrumental Option—3 q. hrs. credit in instrumental organizations.

Choral Option—3 q. hrs. credit in choral organizations.

A maximum of nine quarter hours in ensemble credit may be submitted toward graduation requirements. The music major is encouraged to participate in at least one ensemble during each quarter of residence.

CHORUS

Open to all qualified singers. Four meetings per week. Membership by audition. On Wednesdays at 4:00 o'clock the Chorus forms the nucleus of an all-University Choral Union for the study and performance of Oratorios, Masses, and Cantatas.

MARCHING BAND

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

CONCERT BAND

The concert band functions as a musical unit for study and performances of all types of band literature. Membership is open to all students.

SYMPHONIC WINDS

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

PEP BANDS

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

ORCHESTRA

The orchestra is open to student string, wind, and percussion players. Many instruments are furnished to supply a complete instrumentation.

SYMPHONETTE

A select "little symphony" for the performance of the highest quality orchestral literature. Membership is open to faculty, students and area residents. Membership is selected by audition.

NON-CREDIT MUSICAL ORGANIZATIONS

CHAMBER SINGERS

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

CHAMBER GROUPS IN INSTRUMENTAL MUSIC

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature. These groups appear publicly and are regularly in rehearsal.

COLLEGIUM MUSICUM

A select group of vocal and instrumental musicians who devote their efforts to the study of old or little-known works. Membership is by invitation. Two meetings per week, during Fall and Winter quarters only.

STAGE BAND

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held one evening each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

RECITALS

Each student graduating with a major in music in the Bachelor of Science in Education degree program is required to present appropriate partial junior and senior recitals demonstrating his musical growth and artistry. All students, except freshmen, are required to appear (each year) in the series of student recitals in order to gain experience in musical performance. A student who demonstrates outstanding accomplishment in a study or teaching area shall be permitted to petition for exemption from performance in a senior recital. The General Music Option does not require a senior recital.

The performance major in the Bachelor of Music degree program shall be required to perform at least four times on student recitals in addition to presenting a Junior Recital and Senior Recital. The student recital requirements must be completed before the quarter in which the Senior Recital is given.

XI. STATISTICS AND GRADUATES

SUMMARY OF ATTENDANCE

Spring Quarter, 1968 through Winter Quarter, 1968-69

UNIVERSITY

Full-Time, On Campus:

		<i>Spring</i>	<i>Summer*</i>	<i>Fall</i>	<i>Winter</i>
Seniors:	Men	644	303	625	655
	Women	528	381	561	545
	Total	1172	684	1186	1200
Juniors:	Men	671	255	794	805
	Women	633	359	743	756
	Total	1304	614	1537	1561
Sophomores:	Men	649	208	816	794
	Women	646	261	917	854
	Total	1295	469	1733	1648
Freshmen:	Men	817	343	927	824
	Women	941	288	1154	1064
	Total	1758	631	2081	1888
Graduates:					
Fifth Year:	Men	93	376	72	80
	Women	35	227	39	40
	Total	128	603	111	120
Sixth Year:	Men	5	76	8	6
	Women	1	16	2	1
	Total	6	92	10	7
Total:	Men	2879	1561	3242	3164
	Women	2784	1532	3416	3260
	Total	5663	3093	6658	6424

Part-Time, On Campus:

Seniors:	Men	17	85	17	33
	Women	30	69	16	30
	Total	47	154	33	63
Juniors:	Men	6	24	4	3
	Women	22	37	21	22
	Total	28	61	25	25

* Includes eight and ten-week enrollments.

Sophomores:	Men	5	23	3	4
	Women	20	34	15	14
	Total	25	57	18	18
Freshmen:	Men	12	31	9	10
	Women	35	48	27	31
	Total	47	79	36	41
Graduates: Fifth Year:	Men	136	41	160	131
	Women	135	47	164	137
	Total	271	88	324	268
Sixth Year:	Men	63	11	65	57
	Women	23	3	22	24
	Total	86	14	87	81
Workshops:	Men	—	49	—	—
	Women	—	163	—	—
	Total	—	212	—	—
Total:	Men	239	264	258	238
	Women	265	401	265	258
	Total	504	665	523	496
<i>Total, On Campus</i>	Men	3118	1825	3500	3402
	Women	3049	1933	3681	3518
	Total	6167	3758	7181	6920
<i>Full-Time Equivalent (Resident)</i>		5870	3413	6872	6624
<i>Part-Time, Off Campus:</i>	Men	85	49	98	—
	Women	187	163	215	—
	Total	272	212	313	—
<i>Total University</i>	Men	3203	1874	3598	3402
	Women	3236	2096	3896	3518
	Total	6439	3970	7494	6920
<i>Full-Time Equivalent</i>		5959	3489	6976	6624
LABORATORY SCHOOL					
	Boys	258	112	253	253
	Girls	258	114	262	261
	Total	516	226	515	514

DEGREE GRADUATES

* Graduated at end of Fall Quarter
 † Graduated at end of Winter Quarter

MAY, 1968

MASTER OF SCIENCE IN EDUCATION

ADMIRE, KAREN EMELIE.....	Gillespie
†ARNHOLT, PHILIP JOHN.....	LaSalle
*BECK, MARTHA G.....	Tuscola
BRADFIELD, LARRY OREN.....	Indianola
CAMERON, JUDSON JOSEPH.....	Sullivan
CARWELL, LUCILLE BARTIMUS.....	Oakland
COATE, RALPH EDWARD.....	Blue Mound
†COLLIE, RENEE LORRAINE.....	Blue Island
COOPER, CELESTE KAY FEHRENBACHER.....	Neoga
DAVIDSON, JANICE RAE HILL.....	Toledo
*DOWLING, EDWARD DALE.....	Mattoon
ERICKSEN, JOHN RICHARD.....	Midlothian
EVELAND, BLANCHE B. TROBAUGH.....	Charleston
*FELGENHOUR, JERRY L.....	Homer
*FEVER, LEO WILLIAM.....	El Paso
FRICHTL, JOANN FRANCES.....	Newton
†GIRE, JAMES DAVID.....	Charleston
GREEN, JOHN D.....	Rossville
HORTIN, JOHN A.....	Lawrenceville
HUMPHREY, CHARLES LEONARD.....	Paris
JOHNSON, JAMES ARNOLD.....	Mt. Auburn
KLOKER, LOIS M. DAVISON.....	Kansas
*KREHBIEL, HELEN JANE ZERGER.....	Charleston
*LEFFLER, MARY LOUISE.....	Sumner
LINDLEY, REX D.....	Neoga
*LONOSKY, JOHN M.....	Chicago
LUTHER, ROBERT KENT.....	Ypsilanti, Michigan
†MARTIN, CAROL JEAN McHENRY.....	Joliet
*MAZZARA, ANTHONY.....	Rochester
†McKOWN, PAUL WILLIAM.....	Arlington Heights
*PAJKOS, JOHN EDWARD.....	Chicago
PETTY, COLLEEN ANN.....	Effingham
*PULLEN, HORACE ANDREW.....	Montrose
*QUICK, LARRY DALE.....	McHenry
RICHCREEK, DIANE MARY.....	Calumet City
*RODGERS, BARBARA ANN MILLER.....	Huntington Beach, California
†RUNDLE, FRANK PORTER.....	Chicago
TWENTER, VALERIE JEAN SOPKOWICZ.....	Fort Worth, Texas
WHITE, SAMUEL THOMAS.....	Rose Hill

Men: 23

Women: 16

Total: 39

MASTER OF ARTS

BECK, JOHN WILLIAM.....	Clinton
COOPER, IVAN JAMES.....	Neoga
*GAUBLE, MICHAEL FRANKLIN.....	Girard
*ORNDORFF, JOSEPH EUGENE.....	Mattoon
†WALGREN, CAROL LOUISE NELSON.....	Hoffman Estates

Men: 4

Women: 1

Total: 5

MASTER OF SCIENCE

BARLOW, MARGARET CAMPBELL.....	Sullivan
*CORN, MICHAEL JON.....	Mattoon
†HABBE, JAMES MERRILL.....	Effingham
HAMILTON, CAROL McDUFFIE.....	Mattoon
†MARSHALL, BRUCE BRIGGS.....	Charleston

Men: 3

Women: 2

Total: 5

BACHELOR OF SCIENCE IN EDUCATION

ABSHER, CHARLES EVERETT.....	Carmi
ADAMITIS, JUDITH ANN.....	Collinsville
ALCORN, STEPHEN RALPH.....	Centralia
AMBUEHL, JERALDINE.....	Salem
AMES, JANET LILLIAN.....	Zion
ANDERSON, CAROLE JOYCE.....	Elmwood Park
*ANDERSON, GLENN RUDOLPH.....	Oak Forest
APER, JANICE KAYE.....	Lincoln
APER, JOYCE KAREN.....	Lincoln
†ARTIS, JOHN BURL.....	Mattoon
*AUGUSTITIS, JR., WILLIAM JOSEPH.....	Springfield
AULVIN, MARTHA ANN.....	Albion
AVELLANO, PATRICIA ELLEN.....	Casey
BABB, CAROL ANNE.....	Champaign
BAKER, WALTER HERBERT.....	Oak Park
BALLEW, JACK L.....	Newton
*BARRY, LYNN M. DOLIN.....	Taylor, Michigan
BARTH, M. PAMELA.....	Peoria
BATTERSHELL, HELEN SCHUCH.....	Robinson
*BEATTY, JANET CLARE.....	Belleville
BEESON, PATRICIA DIANE HUFFAKER.....	Chrisman
†BELL, CHARLES EDGAR.....	Paris
BELL, JANET KAY NASH.....	Mattoon
BELL, JILL ANN.....	Mattoon
†BELL, LYNDA JEAN.....	Metcalf
BENNING, GEORGE JEFFREY.....	Berwyn
BERNI, WINIFRED ANN.....	Chicago
BERRY, LINDA LUCILLE.....	Carrollton
BERTRAM, CAROLYN ELIZABETH.....	Villa Park
BEVINS, DONALD LEE.....	Charleston
BIGGS, JIMMY CLEE.....	Kansas
BILLADEAU, MARY JOSEPHINE.....	Kankakee
BIROS, JAMES BENJAMIN.....	Mazon
BISHOP, DAVID A.....	Harvey
BLADE, MARTHA CHRISTINE.....	Hidalgo
*BOESENBERG, JR., EARL HAROLD.....	Mt. Prospect
BOGARDUS, RICHARD CHARLES.....	Belvidere
BOLIARD, LINDA LOUISE.....	Alton
BOLL, SANDRA KAY.....	Atwood
†BORROR, LINDA SUE.....	Rossville
BOSTER, CHARLES LEE.....	Fairfield
†BOTTRELL, DONNA KAY.....	Charleston
BOVINET, GORDON LEROY.....	Galatia
BOWMAN, THOMAS WILLIAM.....	Paris
BOYER, ADELINE NADINE.....	Mattoon
BRADFORD, JAMES MICHAEL.....	Bridgeport
BRAMHALL, EDWINNA MILT.....	Lawrenceville
BRAUN, MARY LYNN.....	Effingham
†BRECK, JAMES E.....	Berwyn
*BREITZKE, MARILYN RUTH.....	Elmwood Park
*BRINK, NANCY SUE WILLIAMS.....	Granite City
†BRITTON, DONALD NEAL.....	Olney

BROOKS, ALITA GAIL ASH.....	Effingham
*BROTHMAN, ROBERT CHARLES.....	North Riverside
BROWN, JR., EDWARD CLIFTON.....	Chicago
*BROWN, SARA BETH.....	Mattoon
BRUBACH, CAROL LYNN.....	Island Lake
BRUMMETT, KENNETH LLOYD.....	Mansfield
*BRUNEAU, DANIEL GARY.....	Winthrop, Maine
*BRUNS, LINDA SUE.....	Macon
BRYANT, ELAINE ELIZABETH.....	Arcola
*BULLERMAN, MARY ELLEN.....	Windsor
†BURCHAM, STANLEY PRESTON.....	LaPlace
BURREI, PAMELA MARY.....	Oak Lawn
†BURY, BONNIE JEAN.....	Stockland
CANNON, TERRY LYNN.....	Chicago Heights
†CARR, LESLIE KAY ROBERTSON.....	Bloomington
†CARR, LINDA KAY.....	Charleston
CARSON, KAREN JEAN.....	Findlay
CARTER, DORIS JEAN.....	Chicago Heights
†CARY, RICHARD A.....	Salem
*CASPERSON, CHARYL SUE.....	Arthur
CAUDELL, JOAN ELAINE.....	Trenton
†CHAPMAN, ROSE MARIE.....	Willow Hill
CHEATHAM, EDWARD LEROY.....	Charleston
*CHERRY, JUDY FAY.....	Fairfield
*CHESLOG, CAROL JEAN.....	Prospect Heights
CHIPMAN, KATHLEEN JO HICKS.....	Kankakee
CHRISTENSEN, NANCY DIANE.....	Flora
†CHUNES, KAREN ELIZABETH.....	Springfield
CLAMOR, KARLENE ELLEN.....	Deerfield
†CLAPP, JUDITH DIANE FLUEGGE.....	Charleston
CLARK, WILLIAM LEE.....	Charleston
CLAYTON, MARY ELLEN.....	Collinsville
*CLEFF, ANNE AKIN.....	St. Francisville
COARTNEY, CAROLE SUE.....	Ashmore
COARTNEY, CYRIL DEAN.....	Ashmore
†COCHRAN, JAMES LEROY.....	Sullivan
COFFEY, CHARYL LOU.....	Lawrenceville
†COLWELL, CANDACE L.....	Beloit, Wisconsin
COOPER, BARBARA CLAIRE.....	Belleville
†COOPER, NANCY KAY.....	Argenta
COPE, DORIS ELAYNE.....	Springfield
CORDER, DAVID WAYNE.....	Palestine
CORNELIUS, JERRY CARL.....	Dixon
CORP, CONNIE ANN.....	New Lenox
COTTERELL, PAMELA SUE.....	Decatur
COX, CLAUDIA DENISE.....	Albion
*COX, JANE MAE HUBBARD.....	Farina
COX, RICHARD LEE.....	Elmhurst
†CRABILL, JAMES DAVID.....	Decatur
*CRAIG, CAROLYN BRIDGES.....	Mattoon
CRANDALL, TERRY LEE.....	Erie
CRITES, JAMES LEVI.....	Charleston
†CROPPER, MARTHA.....	Niantic
CROWE, GARY LYNN.....	Mt. Auburn
CUMMINS, ROBIN DENISE.....	Paris
*CUTRIGHT, DOROTHY ELIZABETH McCANDLISH.....	Toledo
DAECH, OTTO H.....	Collinsville
†DAMANN, GUSTAVE DONALD.....	Brockport, New York
†DAMANN, MYRA JEAN.....	Butler
DAMMERMAN, SHIRLEY ANN.....	Effingham
DANDURAND, JANICE ELIZABETH HARRISON.....	Redmon
†DANEK, JUDY SPENCER.....	Grayville
*DANIELS, LIDA KAYE.....	Salem
†DAUGHERTY, MARY E.....	Hammond

DAVIDSON, JACK LEE.....	Marshall
DAVIS, JANICE ELAINE.....	Highland
DAVIS, NANCY ANNETTE JONES.....	Sullivan
DAWSON, MARY FRANCES.....	Charleston
DEFFENBAUGH, SUSAN JANE.....	Paris
†DELZELL, THERESA CANDACE.....	Noble
*DEWITT, NORA JANE.....	Paris
DHAMERS, LARRY CHARLES.....	Geneseo
DOLE, ROBERT EDWARD.....	Neoga
†DONALDSON, GLEN N.....	Beecher City
†DONALDSON, GLORIA ANN.....	Effingham
DOOLEY, DAVID INSKEEP.....	Charleston
DORTCH, WILLIAM GLEN.....	Mundelein
†DOUGLAS, MARGARET J.....	Dallas, Texas
DRAKE, HAROLD LEE.....	Charleston
DuHADWAY, MARY ANN.....	Collinsville
*DUMVILLE, SUZANNE INEZ.....	Pekin
*DUNAWAY, LAURA LOUISE WETZEL.....	Villa Grove
DUNN, BETTY JEAN.....	Mattoon
†EASTON, ROBERT DAVID.....	Gillespie
*ECCLES, LARRY DEAN.....	Elgin
ECKERTY, PATRICIA EILEEN.....	Kansas
*EDGAR, IRIS LUCILLE RINEHART.....	Arcola
EGAN, MARY ALICE.....	Paris
EGAN, MARY DIANE.....	Paris
ELLEDGE, BRENDA JOYCE.....	Paris
ELZY, MARTIN IVAN.....	Sullivan
ENGLEMAN, MARY ANNA.....	Charleston
*ERICKSEN, KAREN SUE.....	Franklin Park
EYTALIS, STEPHEN JOSEPH.....	Rockford
FARIS, DONITA CAROL.....	Mattoon
FERRETTI, MARY JEAN MUDD.....	Charleston
FEUERBORN, JUDY M.....	Effingham
FIELDS, BARBARA JEAN.....	Paris
FISCHER, JUDITH MILDRED.....	Freeburg
FLETCHER, MARCIA.....	Collinsville
†FLING, E. KATHRYN.....	Omaha, Nebraska
FORD, RITA KAY BRUNSON.....	Murray, Kentucky
FORRESTER, GARY DEAN.....	Champaign
FRANCIS, KAY ANN.....	West York
FRANKLIN, ANNE LOUISE BENSON.....	Olney
FRANKLIN, RICHARD JOE.....	Dundas
FREDERICK, SHERRI LYNN.....	Oblong
FREEMAN, KAREN LEIGH.....	Arlington Heights
FREPARTNER, PAULA CATHERINE.....	Effingham
†FREUTEL, KAREN MARIE.....	Schiller Park
FRICK, DONALD MARTIN.....	Carmi
FRIESE, TERREL L.....	Champaign
FRUENDT, DALE EDWARD.....	Watseka
FRYE, MILDRED FAE.....	Vermilion
†FULLER, CHARLES H.....	Findlay, Ohio
GARD, JUDY ANN.....	Elmwood Park
GERGENI, SARA SQUIBB.....	Charleston
GEWIN, EDNA JEAN CHASE.....	Flossmoor
†GEWIN, JOHN BORDEN.....	Flossmoor
†GILBERT, LINDA MOORE.....	Tuscola
*GILL, RICHARD W.....	Carlyle
*GOFF, CONSTANCE MARIE.....	Madison
GOLDENSTEIN, MARCETTI KAY.....	Rantoul
†GOSNELL, EMMA SUE.....	Lawrenceville
GRAHAM, GLORIA JEAN.....	Champaign
GRAY, DIANE SUSAN.....	Seattle, Washington
*GREEN, LINDA LOUISE.....	Strasburg
GREEN, PAMELA DIANE.....	Elgin

*GREEN, SUSAN MAXINE.....	Mattoon
*GREENWOOD, CHARLES N.....	Bartonville
GRINDLE, ELLEN M.....	Lansing
CRITTON, EDMUND LEROY.....	Danville
*GROOMS, MARY ANN.....	Sullivan
†GROVE, DONNA KAY.....	Dundas
GRUEN, DAVID LEE.....	Granite City
GULLICKSEN, HELEN ANN.....	New Lenox
*HAARMANN, JoANN LORETTA.....	Effingham
HABING, MARK JOSEPH.....	Teutopolis
HACKETT, JOSEPH PAUL.....	Tuscola
HAHN, PATRICIA ELEANOR.....	River Forest
HAINES, JILL ANN.....	Champaign
*HAKMAN, JAMES LEO.....	Effingham
HALL, CARL RAY.....	Raleigh
†HALL, JAMES WESLEY.....	Louisville
†HALL, MICHAEL ROSS.....	Mattoon
†HAND, MARY ELLEN.....	Newman
*HANSEN, MONA SUE ERNST.....	Decatur
HANSON, JAMES MICHAEL.....	Decatur
†HANNEKEN, G. DALE.....	Rinard
HARBAUGH, SHARON LYNN.....	Newman
*HARDIG, ROBERT JOEL.....	Dundas
HARDIN, MARY KATHLEEN.....	Belleville
HARGRAVE, ROBERT DEAN.....	Champaign
HARRIS, KIT.....	Dieterich
†HART, ROSANNA JANE HARRISON.....	Robinson
†HARTKE, BEVERLY KAY.....	Litchfield
*HARTMANN, ROGER RICHARD.....	Midlothian
HASENYAGER, ELIZABETH.....	Danville
HAYS, MARGARET ANN.....	Fithian
*HEAVENER, WILLIAM ADELL.....	Windsor
*HEIDEN, DANNY DUANE.....	Shumway
HELPER, MARY KATHLEEN.....	Taylorville
HELLER, DOROTHY JOAN.....	Mattoon
HENRY, LOIS MAE RUFF.....	Pana
HENRY, NANCY ANN.....	Mattoon
HERMANN, PATRICIA LYNN.....	Des Plaines
*HERMES, WILLIAM ALLEN.....	Chicago
HERRMANN, LANCE EUGENE.....	Teutopolis
*HESPEN, ROBERT KENNETH.....	Charleston
HILL, PATRICIA REWERTS.....	Charleston
HILLS, NORMAN D.....	Charleston
*HINKLE, CORA FRANCES HUFFMAN.....	Charleston
HOEHN, THOMAS ROGER.....	Chicago
*HOFFMEISTER, DENNIS LEE.....	Altamont
†HOFMANN, JANE LUCILE.....	Westville
HOGAN, JANE MARIE.....	Normandy, Missouri
HOLSHOUSER, DIANE ELAINE.....	Granite City
*HOOPS, SUZANNE LUEDKE.....	Morton
HOPKINS, CAROLYN SUE.....	East St. Louis
†HOUMES, NORMAN EUGENE.....	Milford
HUGHES, KAREN JEAN.....	Danville
HUGHES, PATRICK ALLEN.....	St. Francisville
HUITZINGH, HENDERINA ROELIE.....	Oak Lawn
HUNT, LINDA MARIE.....	Oak Lawn
ILLIAN, MICHAEL WILLIAM.....	Chicago
INMAN, HARVEY J.....	Chrisman
ISOM, JIMMY JOE.....	Grand Chain
JAGGI, SUSAN BETH.....	Chestnut
JAMES, RONALD DEAN.....	Decatur
*JAMES, SYLVIA EILEEN.....	Mattoon
JENKINS, KAREN SUE.....	East Peoria
JENNINGS, DENNIS FAY.....	Palestine

*JERN, PHYLLIS JEAN SULLENS	Galesburg
JOHNSON, SHERRY ANITA	Oakland
JONES, JANET KAY	Calhoun
JORDAN, VIRGIL GENE	Champaign
JORGENSEN, JAMES EDWARD	Ingleside
JUNKER, GARRY LEE	Grant Park
JUSTICE, RICHARD WILLIAM	Carlinville
*KALLAL, JUDITH ANN	Chesterfield
KAMM, MARY AILEEN	Atwood
KEARNS, MAXINE AVA	Arcola
KEISER, KAREN ANN	Mt. Olive
*KELLEY, BRUCE BALOW	Ridgefarm
*KELLEY, JULIANNE WALKER	Ridgefarm
KELLY, DAVID LEE	Kankakee
KENNEDY, DONNA ZUMWALT	Paxton
KENNETT, JR., GERALD PAUL	Carlyle
KEROUS, JOYCE LOIS	Westchester
KIETZMAN, JOHN RAYMOND	Loda
KIMBALL, KATHERINE JANE	Chicago
KINDRED, KATHY	Lincoln
KING, MARY JANE	Lockport
*KING, NEVA A.	Noble
KIOUS, SUE ELLEN	Lovington
*KIRK, DANA MARIE	Fillmore
*KIRKWOOD, JUDITH SUE RITTER	Olney
KLEIN, BRENDA JEAN	Rosamond
*KLOKER, MARVYL JANE	Kansas
KNAKMUHS, CONNIE JEAN	Albion
*KRUGER, J. DIANE BARTON	Effingham
KRONVOLD, LYNN DORANE BAUMANN	Schiller Park
KRUSE, JOHN CALVIN	Palatine
*KUENSTLER, KAREN SUZANNE	Farmer City
KUENTEMEYER, DAVID EARL	Grant Park
KUHL, PHILIP BERNARD	Ingraham
*KULZE, ELIZABETH LEONA	Mattoon
*LACOST, SHERRY LEE NEWMAN	Champaign
*LACOSTE, BEVERLY DARLENE	Chicago
*LAKE, JAMES ALLAN	Olney
LAMBERTI, CHRISTINE ANN	Abingdon
*LANE, ROBERTA SUE	St. Francisville
*LANG, JACQUELINE ANN	Danville
LATHROP, DAN LEE	Rantoul
LAU, MICHAEL EDWARD	Teutopolis
*LAW, CHARLES FREDRICK	Canton
LEE, CAROLE SUE	Casey
LEE, DAVID GEORGE	Sidney
LEFEVER, MARY SUSAN	Oblong
LEVY, KENNETH JOEL	New York, New York
*LEWIS, GARY R.	Pana
LINGAFELTER, SANDRA SUE	Hutsonville
LISH, RICHARD JAMES	North Plainfield, New Jersey
*LIVESAY, JAMES EDWARD	Brocton
LOVE, SHIRLEY DIANE	Springfield
*LOWELL, JUDITH LOUISE	Charleston
LUTHE, GARY WAYNE	West Salem
*LUTZ, DANIEL ARTHUR	Beecher City
*LYLES, JAMES WALTER	Mattoon
MAGILL, LINDA ELAINE ALLEN	Newman
MANNY, MERCEDES MALEY	Ivesdale
MARCHANT, PAUL EUGENE	Charleston
MARGOLIS, MARK	Chicago
MARNOS, JAMES STEVE	Chicago
MARSH, SALLY IO	Maroa
MARSKI, JOANNE CATHERINE	Villa Park

MASCIOLA, ROLAND DAVID.....	Glendale Heights
MASON, SUSAN LYNNE.....	St. Charles
MATTHEWS, EDGAR HENRY.....	East St. Louis
MAUCK, MARY LOUISE.....	Danville
†MAULDING, ROBERT LEWIS.....	Lakewood, Ohio
McCARTHY, MONICA MARY.....	Kankakee
†McCLANAHAN, JACKI LYNNE.....	Charleston
*McCOY, B'ANN BREEZE.....	Galena
McCOY, DONNA JANE.....	Paris
McDEVITT, MARILYN KAY PROBST.....	Charleston
*McHENRY, GREGORY LANCE.....	Paris
McLIN, KAREN LOUISE.....	Chrisman
McNARY, JOHN E.....	Marshall
†McROBERTS, ROBERTA G.....	Charleston
MEANS, TIMOTHY KENT.....	Bridgeport
*MEESE, NANCY JOANN MONTGOMERY.....	Ashmore
MEHL, KENNETH BRUCE.....	Carrollton
*MICHELS, MICKEY L.....	Paris
MINGS, GARY EVERETT.....	Decatur
MITCHELL, MARY ESTELLE.....	Aurora
†MOGGIO, RAE FRANCES.....	Livingston
MORGAN, DIXIE DORENE.....	Marshall
MORGAN, MICHAEL LYNN.....	Lerna
MORRIS, NANCY LEE.....	Staunton
MORSE, KEREL LYNN.....	Alvin
MORTON, ALLEN JOE.....	Salem
†MRIZEK, DAVID EMIL.....	Westchester
*MUCCIANI, JOHN FRANK.....	Oak Park
†MUCHMORE, DENNIS CLARENCE.....	Charleston
†MUNINI, BARBARA SWENSON.....	Springfield
†MURRAY, JOHN ROS.....	Monticello
NELSON, LANA JEAN COLCLASURE.....	Arcola
*NEWKIRK, SUSAN JANE.....	Mt. Carmel
NEWMAN, LARRY GENE.....	Rankin
†NEWTON, DAVID E.....	Newton
†NICHOLSON, MIRIAM KATHLEEN.....	Oakland
NICOLAS, RICHARD DAVID.....	Moweaqua
NOTTINGHAM, LYNETTE.....	Decatur
NOVOTNY, NANCY LUCILLE.....	Cicero
O'BRIEN, PAULA JANE.....	Joliet
OCHS, CATHERINE SELLETT.....	Decatur
OHLE, JUDITH RAE.....	Mt. Prospect
OLIVER, CLAUDETTE WILLOWGENE.....	Martinsville
OSTANIK, JOHN RONALD.....	Collingsville
OSTANIK, MARY JANE BROWN.....	Charleston
OWENS, NANCY ANN.....	Elmhurst
†PARKER, HAMPTON MARRS.....	Hindsboro
PAUL, JEFFREY LYNN.....	Chicago Heights
†PAVELONIS, DAVID MARION.....	Harrisburg
PEARCE, TERRY KENT.....	Zion
PECK, JOHN ALEXANDER.....	Charleston
PEKARA, EMILY JO CRAIL.....	Charleston
PENTECOST, CAROLYN MARIE.....	Decatur
PETERSEN, SHARON GAYLE.....	Rankin
PETZING, JOHN WILLIAM.....	Beecher City
PHILLIPPE, PHILIP EDWARD.....	Robinson
†PHIPPS, LINDA LOU.....	Urbana
PIEPER, LINDA MARIE.....	Ohlman
PIERCE, JOHN REED.....	Danville
PITHER, JUDITH ANN.....	River Forest
PLATH, CARL H.....	Charleston
†POPERNIK, SANDRA JEANNE.....	La Grange
†POSTON, BARBARA ANN ZADIGIAN.....	Waukegan
POWELL, PATRICIA ANN KAUSERAUT.....	Carlinville

PRANGER, DEBORAH MICHELLE	Carrollton
PRATHER, PATRICIA JEAN	Urbana
PUETZ, RUSSELL ANTON	Casey
*PULLEYBLANK, LARRY K.	St. Francisville
PURCELL, SUZANNE KAY	Decatur
*RADCLIFF, SUE ELLEN	Paris
*RAHN, JoANNE LASSETER	Bluffton, Indiana
RANDOLPH, PATRICIA KAYE	Lerna
†RATHERT, JANICE KAY	Campbell Hill
RAUCH, KAYE ELIZABETH	Springfield
RAYHILL, SUSAN CAROLINE	Charleston
REAVIS, SIDNA HANDLEY	Charleston
REDD, CHARYL ANN	Charleston
REED, BRENDA SUE	Newton
REED, JESSICA	Rockford
REGLIN, JOHN ROBERT	Bridgeport
REGNIER, STEWART LLOYD	Brookfield
REINBOLD, PHILIP ALAN	Palestine
RIDER, LISA IZETTA	Mattoon
*RIMKUS, CHARLES ARTHUR	Mundelein
†ROBERTS, JOAN MARIETA	Farina
†ROBERTSON, CAROLYN	Charleston
RODRICK, ROBERTA SUE	Sumner
*ROHLINGER, MARION ELIZABETH	Libertyville
ROTSCH, TERRY DICK	Staunton
RUDE, BARBARA JEANNE	Elizabethtown
RUENZI, JANET KAY	Lincoln
*RUHLE, JR., GEORGE HENRY	New Lenox
*SCHAEFER, DONNA KAY	Charleston
*SCHAEFER, BETTY JO	Bellmont
†SCHATZ, LINDA KAY KLOPPENBERG	Carpentersville
SCHIEDENHELM, CAROL ANN	Mendota
SCHERTZ, WILBUR LYNN	Gibson City
SCHLOMER, LOREN JEAN	Benson
SCHMIED, SUZANNE	Prospect Heights
SCHNORF, DAVID EDGAR	Charleston
SCHOONOVER, JOHN RODGER	Mt. Carmel
SCHREIBER, LINDA KAY	Bement
SCHULTZ, DIANE LUCILLE	Pontiac
SCHWEINECKE, NANCY LEE	Newman
SEARS, GLORIA SUTTON	Newton
*SEATON, JERRY LEE	Charleston
SEBBY, ROGER WILLIAM	Plainfield
SEILER, GLORIA E.	Westville
SELBY, SHARON L.	Danville
SELLERS, RONALD RAY	Hillsboro
*SEYMOUR, BONNIE SUE	Rossville
*SHAW, STEVEN LYNN	Mattoon
SHEETINGER, SHARON LOUISE	Danville
SHERIDAN, REBECCA LYNN	Sainte Marie
SHERIDAN, ROBERT ERIC	Berwyn
SHIPMAN, RANDALL DUANE	Robinson
SHOUSE, RICHARD ALLEN	Effingham
*SHULTZ, STEPHEN CHARLES	Olney
SIKORA, STEPHEN CHESTER	Chicago
*SIZEMORE, LINDA KAY	Lawrenceville
*SKINNER, LENA SUE	Broadlands
*SLIGHTOM, MARY ANN	Harrisburg
SLOAN, PATRICIA ANN	Gillespie
*SMITH, JEANETTE	Belleville
SMITH, JOSEPH DON	Hillsboro
SMITH, SUSAN MARIE	Dupo
†SPENCER, THOMAS MARK	Charleston
*STEINMETZ, STEPHEN	Lawrenceville

STEPNEY, WILLIE JAMES.....	Decatur
STEVENS, MARY ELLEN.....	Effingham
STEVENSON, JUDY LYNN.....	Champaign
STOCKDALE, SUSAN LYNN.....	Indianapolis, Indiana
STONE, CAROLE LYNN.....	Belleville
STORTZUM, JAY R.....	Effingham
STORTZUM, ROBERT WAYNE.....	Charleston
STORY, RICHARD JAN.....	Charleston
*STRADER, MICHAEL L.....	Charleston
*STRANDBERG, TWILA ESTELLE YUNCKER.....	Charleston
STRUEBING, JAMES R.....	New Holland
STUMP, SUZANNE.....	Arcola
SUNDAY, JAMES EDWARD.....	Clay City
SWANK, BEVERLY JUNE.....	Danville
*SWANK, GLENDA LOUISE GODDARD.....	Paris
*SWEARINGEN, PAMELA JO.....	Decatur
TAYLOR, LADONNA RAE ELLZEY.....	Cisne
TAYLOR, MERLE RAY.....	Mill Shoals
*TAYLOR, RODGER DEAN.....	Urbana
*TEGELER, KATHLYN GAY DRUMM.....	Champaign
†THOMAS, SHARON ELAINE SMITH.....	Paris
TILTON, MARILYN ANN.....	Harvey
TISON, THOMAS NEAL.....	Westville
*TODOROFF, BRUNHILDE G. HOFFMANN.....	Granite City
*TRIMBLE, SUE ELLEN.....	Robinson
TRUEBLOOD, MARTHA ROSE WETZEL.....	Charleston
TRUMANN, T. WAYNE.....	Milford
†TUCKER, CHERYL SUE.....	Champaign
†TUCKER, PATRICIA R.....	Paxton
*UCHO, KENNETH EDWARD.....	Chicago
†VAN CAMP, PAUL S.....	Danville
VANCE, STEVEN E.....	Loda
*VANDELINDER, JEAN M.....	Deerfield
*VANDEVENDER, ELIZABETH N.....	Charleston
*VANDYKE, JULE MARIE.....	Effingham
VANFOSSAN, RANDY EUGENE.....	Decatur
†VASEY, WARREN M.....	Jacksonville
†VAUGHAN, JOHN WILLIAM.....	Galva
VELASCO, FERNANDO MANUEL.....	Chicago
VERMILYEA, GARY STEPHEN.....	Forsyth
*VETTER, BEVERLEY ANN.....	Springfield
VIDONI, DENNIS OSCAR.....	Berwyn
VITKO, DIANA LYNN.....	Gardner
VOLK, JEROME EDMUND.....	Wakefield
*VONBOKEL, BILLIE SUE.....	Carlyle
†WAGONSELLER, L. ANNE.....	Lawrenceville
†WALDER, JEAN KATHRYN.....	Onarga
*WALLACE, LYNN ANN.....	Mattoon
WALSH, JULIA ELLEN.....	Potomac
*WARNER, FRANKLIN LEE.....	Oakwood
†WATSON, ULESTINE.....	Chicago
†WEAVER, LINDA.....	Springfield
WELCH, SHARON SUE.....	Mattoon
WESLEY, MARY LOU.....	Gillespie
WESSELMANN, JAMES G.....	Mascoutah
*WEST, ANNA L.....	Mattoon
†WHITE, ALAN KENT.....	Sullivan
†WHITE, FLOYD EDWARD.....	Albion
WHITE, RONALD STEVEN.....	Mattoon
WHITLING, JOYCE IRENE.....	Casey
WILLENBORG, JOY JOSEPHINE.....	Effingham
WILLIAMS, DEANNA SUE.....	Casey
*WILLIAMS, DENNIS C.....	Mt. Carmel
WILLIAMS, JUDITH ANN.....	Park Ridge

WILLS, LINDA LOUISE.....	Beecher City
WILSON, CAROL SUE.....	Olney
WINDER, JUDITH ANN.....	Monticello
*WINKLER, RONALD DALE.....	Danville
WISE, GERALD.....	Peoria
WITHROW, JR., CECIL.....	Wayne City
†WITTERS, CHARLES WORTH.....	Charleston
WOLFORD, RICHARD CLAYTON.....	Fillmore
†WOLK, CAROL LEE.....	Chicago
WOLTERS, ALICE EILEEN.....	Pana
WOODLAND, SANDERS PAUL.....	Litchfield
WRIGHT, TREVA CLARICE.....	Decatur
WRIGHT, VIRGINIA LEE.....	Villa Park
*WROTEN, CHERYL LOUISE.....	Edwardsville
†WUNDERLE, PAMELA SCHENKE.....	Mason City
*YATES, LINAYA DIAN.....	Mattoon
YODER, JUDITH ANN.....	Arthur
ZABEL, ELLEN RAE.....	Decatur
ZAPFEL, SANDRA LEE.....	Palatine

Men: 201

Women: 318

Total: 519

BACHELOR OF SCIENCE

ADAIR, KAREN SUE.....	Savoy
ADKINS, ROBERT JAMES.....	Charleston
ARENDs, KATHLEEN L.....	Kankakee
*BEURSKENS, CHRISTIAN JOHN.....	Villa Grove
*BEYERS, KENNETH JOHN.....	Arthur
BLACK, RONALD EUGENE.....	Toledo
BROWN, JOSEPH EVERETT.....	Rosiclaire
†BUESKING, NORMA JEAN.....	Stewardson
*BYRD, ROBERT WILLIAM.....	Charleston
CARRIKER, ROY RONALD.....	Walshville
CHRISTMAN, RICHARD ALAN.....	Waukegan
CONNELLY, PHILIP L.....	Martinsville
DHOM, RALPH EDWARD.....	Mattoon
*DYSON, JOHN PATRICK.....	Champaign
EDGAR, JAMES ROBERT.....	Charleston
*GARRISON, WILLIAM KEITH.....	Mattoon
HALLAM, DANIEL MICK.....	Oakland
HANSEN, GARY ALAN.....	Franklin Park
HATHAWAY, WILLIAM CHARLES.....	Mt. Prospect
†HELLRUNG, BONNIE JEANNE.....	Edwardsville
HUGHES, LARRY LEON.....	Carmi
*HUISINGA, LORENA MARY.....	Eureka
†IRBY, RICHARD EUGENE.....	Mattoon
*JOHNSON, PAMELA EVE SHIRK.....	Springfield
KACZOR, WILLIAM S.....	Chicago
†KERLIN, TERRY SHANNON.....	Decatur
†KLAUS, GERALD R.....	Dolton
KULL, STEVEN DOUGLAS.....	Shelbyville
*LEE, KENNETH WAYNE.....	Ina
LOGUE, JEAN EVELYN JEFFREY.....	Casey
*MacDONALD, ROBERT BRUCE.....	Momence
*MASTERS, PAULA RENEE SCOTT.....	Vandalia
*MATON, JOHN LAWRENCE.....	Pana
†McCOY, GARY LYNN.....	Streamwood
*McVEY, DANA LYNN.....	Muncie
†MIHLBACHLER, ROBERT EUGENE.....	Effingham
MOORE, REX DALE.....	Eureka
PATE, JAMES ROBERT.....	Elmhurst
†RENSHAW, JOHN ROY.....	Charleston
†RICHARD, MARY ANN MOODY.....	Charleston

*SAMII, IRAJ HAJI.....	Charleston
*SCHAEFER, MARTIN A.....	Charleston
SCHALLER, ROBERT WILLIAM.....	Kankakee
SCHMITZ, WILLIAM ALLEN.....	Batavia
SHERER, FREDERICK JOSEPH.....	Mattoon
SHUPPERT, JOHN WILFRED.....	Lawrenceville
*SMITH, ELIZABETH ANNE.....	St. Anne
STABLER, LARRY LEE.....	Tuscola
*STRONG, MICHAEL JOSEPH.....	Sullivan
†STURGEON, STEPHEN MICHAEL.....	Mattoon
THAYER, PHYLLIS ALTHEA.....	Deerfield
VAUGHT, MICHAEL B.....	Lawrenceville
VOCESANG, CHARLES J.....	Mattoon
†VYVERMAN, DONALD LEONARD.....	Taylorville
WILSON, STEWART FRASER.....	Champaign

Men: 43

Women: 12

Total: 55

BACHELOR OF SCIENCE IN BUSINESS

ALLEN, J. MICHAEL.....	Joliet
ALSAGER, CLIFFORD JAMES.....	Calumet City
ARNETT, HOWARD RUSSELL.....	Carlinville
*AUSTIN, STEVEN HOWELL.....	Decatur
BAKER, NORMAN EDGAR.....	Urbana
BARGMAN, JOHN FREDERICK.....	Chester
*BARTH, CHARLES STEVEN.....	Cissna Park
BENNETT, JAMES HARLAN.....	Aurora
BENVENUTO, STEVE WILLIAM.....	Hillsboro
†BLACK, RICHARD H.....	Salem
BLAND, EVERETT RUDOLPH.....	Pana
BURT, ROBERT LYNNE.....	Cape Canaveral, Florida
CAMPBELL, CAROL ELAINE SCHMITT.....	Strasburg
*CAMPBELL, ROBERT BURNETT.....	Oswego
†CARLI, LARRY JOHN.....	Granite City
CLARK, JR., ROBERT RALPH.....	Charleston
*CRANE, GARY MAURICE.....	Joliet
*CREMER, LARRY LESTER.....	Momence
†CUDA, CRAIG LEE.....	North Riverside
*DAILY, JOSEPH W.....	Mattoon
DAVIS, STEPHEN JAMES.....	Sullivan
DENNIS, MICHAEL LAURENCE.....	Peoria
*DIEKON, SR., ROBERT WILLIAM.....	Chicago
†EHLERT, JOHN WESLEY.....	Charleston
ELLETT, TERRY F.....	Sidell
ENDSLEY, DANNY LEE.....	Casey
EVANS, THOMAS ALAN.....	Decatur
†FINFROCK, CARL EDWARD.....	Effingham
FISCHER, JOHN CHARLES.....	Salem
†FORD, JAMES MICHAEL.....	Centralia
*FRANCUS, ROBERT.....	Calumet City
†FRANKEL, BARTON NEIL.....	Yonkers, New York
FRANKS, DENNIS MICHAEL.....	Rantoul
FULTZ, DAN F.....	Sullivan
GADDIS, HARRY KEITH.....	Robinson
GATES, JEFFERY LESLIE.....	Charleston
GIBSON, RAY ARTHUR.....	Odin
GOLUBA, JR., NICHOLA WILLIAM.....	Streator
†GOUGH, NED CURRY.....	Kansas
GOVER, THOMAS ANDREW.....	Mattoon
†GRAY, PAUL RICHARD.....	Dundas
*GRUBB, THOMAS GORDON.....	Tuscola
*GUNN, MICHAEL TERRANCE.....	Park Forest
*HALEY, HENRY ROBERT.....	Carmi

HANDELL, ARTHUR ROBERT.....	Dixon
HANFLAND, WILLIAM J.	Neoga
HART, RALPH D.	Carlinville
+HARVEY, JR., CARL A.	Springfield
HEISCHMIDT, KEITH ALBERT.....	Paris
HILDEBRAND, ALAN WAYNE.....	Elmwood Park
HOWARD, PHILLIP ROGER.....	Paris
ISMAIL, MUHAMMAD.....	Ivi, Sumatra
+JACOBY, RONALD PAUL.....	Findlay, Ohio
*JACKSON, CURTIS GERALD.....	Decatur
JELLEY, GARY JAY.....	Edinburg
+KENNEDY, DAVID GEORGE.....	Mattoon
KHAN, RASHID ALI.....	Karachi, Pakistan
KUHL, THOMAS OWEN.....	Mattoon
+LEACH, GARY MICHAEL.....	Morrisonville
LEONARD, JOHN CURTIS.....	Chenoa
LITTLE, WILLIAM LOUIS.....	Loveland, Ohio
McGRATH, JOHN EDWARD.....	Skokie
+McKEE, GARY LEE.....	Mt. Carmel
McMULLEN, LARRY ROBERT.....	Neoga
MERRY, JAMES D.	Dieterich
*MILLER, CHARLES W.	Mt. Carmel
+MILLER, HAZEL ELMER.....	Charleston
MILLER, ROBERT JOHN.....	Aroma Park
MILLER, RONALD WINFIELD.....	Casey
+MORIN, THOMAS L.	Decatur
MORRISON, WAYNE RAY.....	Charleston
+MULCAHEY, MICHAEL JAMES.....	Danville
NOLAND, MICHAEL H.	Macon
NOTTMEIER, MILTON RONALD.....	East Carondelet
OLIVER, RONALD L.	Decatur
+O'NEILL, P. WILLIAM.....	Savoy
+ONSTOTT, CARL L.	Kankakee
PAUL, DAVID MARKHAM.....	Chicago Heights
PEYTON, LARRY WENDELL.....	Charleston
POPERNIK, CLARENCE G.	La Grange
*RAGO, KENNETH JAMES.....	Chicago
RASMUSSEN, ERIC H.	Chicago
REESER, JANET ELAINE.....	Farmer City
REYNOLDS, BRUCE HARRETT.....	Charleston
+ROBERTS, THOMAS WILLIAM.....	Farmer City
SANDERSON, CRAIG EUGENE.....	Tuscola
SAPPINGTON, MARTIN R.	Greenup
SCHMIDTGALL, WILLIAM HAROLD.....	Gridley
SCHULTZ, PHILIP R.	Pesotum
SCOTT, JEFFREY GLENN.....	Salem
SHAFER, GARY RICHARD.....	Windsor
SIMPSON, MARILYN ELIZABETH.....	Kansas
SINCLAIR, SCOTT VERN.....	Decatur
SKERTICH, LEE GEORGE.....	Crete
SNODGRASS, RITA JEAN.....	Waukegan
STEWART, JAMES GREGORY.....	Moweaqua
+STOKES, DALE K.	Charleston
STREGE, JANET MAE.....	Charleston
SULLIVAN, WARREN W.	Kankakee
SUNDERMAN, WILLIAM ANTHONY.....	Charleston
TORNOWSKI, STEPHEN J.	Roberts
VANVICKLE, JOHN LARRY.....	Danville
VARNES, STANLEY LAVERNE.....	Kankakee
VRETTOS, WILLIAM CHRIST.....	Norridge
*WAGNER, BIRDELLA DEE.....	Paxton
*WEBER, III., FRANK JOSEPH.....	Olney
*WHITCOMB, LINDA WALTHER.....	Mattoon
*WILSON, WILLIAM E.	Mattoon

WINDERS, CHARLES DEAN.....	Rosiclare
*WITMER, STEPHEN ALLEN.....	Charleston
WOLFE, ROBERT ROYCE.....	Grayville
WOOD, KENNETH LELAND.....	Champaign
WOODCOCK, LESLIE GENE.....	Decatur

Men: 105

Women: 8

Total: 113

BACHELOR OF ARTS

†BALDWIN, MICHAEL JEROME.....	Rockford
BOVAH, RICHARD DUDLEY.....	Fairfield
*CASHMER, TERRY L.....	Springfield
†DIETZ, CARLA.....	McHenry
*DOYLE, STEVEN MAHLON.....	Champaign
ELLIOTT, KAY LOUISE.....	O'Fallon
FOSDICK, JR., SAMUEL J.....	Deerfield
GERLACH, JANET ANNE.....	Mt. Prospect
LaFRENTZ, DEAN RAYMOND.....	Mattoon
OTIENO, AGGREY JOEL.....	Nairobi, Kenya
†ROLLER, JAMES PHILIP.....	Miami, Florida
SHIELDS, RICHARD THOMPSON.....	Paxton
SODERBERG, INGRID ROSE.....	Pontiac, Michigan
*TRANQUILLI, TERRANCE LEE.....	Riverton
*UNDERWOOD, LARRY DWAIN.....	Bussels
WHETSELL, TONY D.....	Mattoon

Men: 12

Women: 4

Total: 16

AUGUST, 1968**SPECIALIST IN EDUCATION**

EVERS, JOHN LEWIS.....	Carmi
GASKILL, EDGAR ALLEN.....	Charleston
PHILLIPS, AARON W.....	Belleville

Men: 3

Women: 0

Total: 3

MASTER OF SCIENCE IN EDUCATION

ADAM, PAUL CHRISTIAN.....	Kankakee
AMSTUTZ, EMILY JEAN BERTSCHE.....	Mattoon
AMSTUTZ, RICHARD KEITH.....	Mattoon
ANDERSON, CAROLYN SUE PHILLIPS.....	Olney
ARNHOLT, KAREN LENORE BARTEL.....	Chicago
BAKER, ROGER KENT.....	Decatur
BANKS, CAROLYN SUE.....	Nokomis
BELL, BETTY HUBER.....	Charleston
BLAYLOCK, ARNOLD A.....	Frankfort
BRODERICK, RICHARD ALLEN.....	Sidell
BUFFENMEYER, ELOISE KNIGHT.....	Lerna
BURGETT, DAVID CHARLES.....	Paris
BURNELL, JANICE KAY.....	Noble
BUSCHER, DONALD LEE.....	Brighton
CAMPBELL, BETTY JANE WILLIAMSON.....	Charleston
CAMPBELL, LINDA KAY DWORAK.....	Mattoon
CARTER, HENRY ALLEN.....	Nokomis
CHANCE, NEIL HOWARD.....	Salem
CHAPMAN, DALE D.....	Mt. Vernon
CLAAR, ROGER CHARLES.....	Decatur
COARTNEY, RONALD WAYNE.....	Charleston
COFFEY, MAX LAVERNE.....	Kansas

CONLEY, JOHN HERBERT.....	Oakland
CROCIANI, LAWRENCE EDWARD.....	Waukegan
DELANEY, JOSEPH RAYMOND.....	Strawn
DORIS, RONALD LEE.....	Paris
DRENNAN, LYNNE ELLYN.....	Bethalto
FEEZEL, BETTY FLOE BOLLES.....	St. Elmo
FRANZEN, GARY L.....	Libertyville
GLOSSER, GARY EUGENE.....	Aurora
GOODMAN, RITA JANE WALL.....	Arthur
GRANSE, JR., WILLIAM FRANCIS.....	Colonia, New Jersey
GRANT, MARTHA SUE DODD.....	Toledo
GREESON, DAVID LLOYD.....	Taylorville
GRUBBS, MARY JANE.....	Blue Island
HALLIBURTON, RICHARD D.....	Decatur
HARPER, STEVEN TRITT.....	Ogden
HAWKINS, RUTH MARIE WISEMAN.....	Oakland
HENDERSON, KAREN LEE.....	Mattoon
HOLDEN, RONALD STUART.....	Chicago
HUBER, LARRY L.....	Bath
IRWIN, FRED L.....	Abilene, Kansas
KELLY, COLIN N.....	Altamont
LEBRECHT, STEPHEN ERIC.....	Mattoon
LEGGITT, ORREN CLEMENT.....	Oblong
LOCKART, CAROLYN E. SPECHT.....	Cowden
LOWRY, KATHLENE STAFFER.....	Sullivan
LUNDIN, ROBERT STEPHEN.....	Blue Island
MARCHMAN, BILLYE JO WAGNER.....	St. Elmo
MARVEL, RUSSELL GENE.....	Noble
MAXWELL, WILLIAM LARRY.....	Louisville
McJUNKIN, DAVID CLARKE.....	Evanston
MEANS, HAROLD EDWARD.....	Kansas
MENKE, ANTHONY PAUL.....	Effingham
MORRIS, ERNEST ROLAND.....	Chicago
MORRIS, JOHN DOUGLAS.....	Mattoon
MORRIS, RUFUS G.....	Mattoon
MORTON, ANN JEANNETTE.....	West Union
MURAD, VIRGINIA LORRAINE.....	Charleston
NEGEWO, LEGESSE.....	Addis Ababa, Ethiopia
PACHCIARZ, JOYCE ANNETTE.....	Charleston
PARSONS, JAMES ALBERT.....	Cowden
PETERSON, KEITH GERALD.....	Des Plaines
POWERS, JR., ARTHUR F.....	Paris
PRIBYL, ROBERT JAMES.....	La Grange
PRICE, MARY LOU.....	St. Elmo
PROVINES, DOROTHY FERN.....	Olney
REJD, GERALD FRANCES.....	Carlinville
RHYNE, LELAND DALE.....	Oblong
RICH, GERALD GENE.....	Olney
ROBOVSKY, JR., RALPH.....	Roscoe
SANDSTEAD, HOLLISTER LYLE.....	Taylorville
SENG, LOIS E.....	Windsor
SHEFFIELD, DOROTHY FRANCES JOHNSON.....	Dickenson, North Dakota
SINCLAIR, VIVIAN JUANITA NELSON.....	St. Elmo
SMARGIASSI, DONALD T.....	Springfield
SNYDER, JUDITH ANN BAKER.....	Casey
SPYKE, HERBERT ALLAN.....	Cleveland, Ohio
SUTTON, CHARLES NOEL.....	Mattoon
TANNER, GEORGE ELLIS.....	Yates City
TAYLOR, JAMES PORTER.....	Mill Shoals
TEMPLIN, NAOMI RUTH.....	Louisville
TOLLIVER, L. E. (GENE).....	Clay City
UMMEL, RONALD LLOYD.....	Urbana
VANBELLEHEM, FAYE B.....	Charleston
WALBORN, SYLVIA MAE GUMBEL.....	Charleston

WALKER, TERRIL J.	Olney
WALTON, KATHRYN JOANNA.	Blue Island
WILLIAMS, DORIS ALMA.	Casey
WOLF, DONALD LEE.	Paxton
WORKMAN, PATRICIA ANN.	Clay City
YANDELL, RICHARD W.	Mattoon

Men: 58 Women: 34 Total: 92

MASTER OF ARTS

ATKINS, VIRGINIA HOCGE.	Charleston
BECKEMEYER, MILDRED LEE.	Carlyle
CHAMPLIN, SUSAN ANNETTE.	Danville
COOK, JR., THOMAS T.	Decatur
DENNIS, PHILLIP WALTER.	Arcola
EVANS, VIRGINIA LEE FERGUSON.	Mattoon
MILLHORN, EVERETT LLOYD.	Oreana
PEKARA, GUS C.	Charleston
ROSEBRAUGH, ROBERT DALE.	Lerna
SUMNER, GENE ARTHUR.	Pecatonica

Men: 6 Women: 4 Total: 10

MASTER OF SCIENCE

ALTMAN, MARY FORTNER.	Effingham
BRYAN, KERRY LEE.	Homer
CRITES, RICHARD WAYNE.	Olney
FOX, EDWARD GERALD.	Chicago
LOFFREDO, ARMAND R.	Ottawa
MINTUN, SHIRLEY BAUGHMAN.	Mattoon

Men: 4 Women: 2 Total: 6

BACHELOR OF SCIENCE IN EDUCATION

ADAMS, JOYCE YVONNE.	Palestine
ALLEN, RONALD STEVEN.	Newman
ALLISON, MELVIN JUNIOR.	Yale
ANGLIN, DONALD EDGAR.	Hume
ARCHER, NELSON OSCAR.	Broadlands
AUGUSTUS, DORIS JEAN.	Paris
BAILEY, WILLIAM OBIE.	Casey
BASS, CRIS ANN HASHU.	Decatur
BENJAMIN, RUSSELL DEAN.	Cisco
BERTOGLIO, JAMES BRUCE.	Mt. Prospect
BEVINS, BARBARA JEAN.	Charleston
BEYERS, ROSE MARIE.	New York, New York
BIBLE, REX.	Findlay
BLICKENSDECKER, JACK CARROLL.	Cerro Gordo
BLOCK, MARJORIE BELLE FOX.	Fairmount
BOYD, DALE EUGENE.	Robinson
BRANT, LARRY A.	Noble
BRASEL, TERRY MAX.	Charleston
BROOKS, JANET CAROL.	Harvey
BROWNE, ROBERTA LEE.	Mattoon
BUBON, JAMES WILLIAM.	Champaign
BURGNER, DAWNE MARGUERITE SEDLAK.	Springfield
CALIENDO, FRANK HENRY.	Elmwood Park
CARDINAL, GARY VAUGHN.	Olney
CHRISTENSEN, DAVID MARLIN.	Effingham
CHRISTENSEN, LINDA RAE.	Effingham
CHRISTY, LINDA KATHERINE.	Rantoul

CLINE, PHYLLIS JANE	Pleasant Plains
CONVERY, MARY ELLEN	Raymond
CORLEY, MARY ELLEN DOBBS	Libertyville
CORRELL, CAROLYN MARIE	Robinson
COVEY, KAREN SUE	Decatur
COX, JOHN D.	Greenup
CREMER, LINDA DAWN	Momence
DAUGHERTY, PAM	Elmwood Park
DENNIS, LARRY MICHAEL	Bridgeport
DEVOE, KENNETH W.	Winnebago
DEWITT, DIANA KELSHEIMER	Paris
DICKEY, LARRY DWAIN	Fairfield
DICKSON, D. JOANN	Catlin
DUNN, EDWARD ALLEN	Mahomet
EASTON, JR., ROY C.	Greenup
EDWARDS, CAROLYN JEAN	Centralia
ELDER, NANCY JEANNE MORROW	Sullivan
EPPERSON, MARY ANN KIMBALL	Westfield
EVANS, II., JAMES PRICE	Charleston
EVANS, NAOMI PEARL	Champaign
FIALKO, JOHN E.	Streator
FLAMINI, CHARLES F.	Springfield
FOSTER, BARBARA KAY	Mattoon
FOSTER, SUSAN JUNE SHEPPARD	Lovington
FRACASSI, PEGGY LOU	Mt. Prospect
FRANK, JEAN MARIE	Joliet
FREEBERG, DIANA SUE BAUMBERGER	Greenville
FREEZE, BOBBY BRUCE	Paris
FUNK, SHARON MILDRED	Casey
GARNER, MYRA BELLE HOUGHTON	Danville
GENETSKI, MARION BERGBAUER	Park Forest
CIEKER, DONNA JEAN	Moline
GILLIHAN, MARY ANN	Odin
GILLUM, MARGARET GWIN	Springfield
GLASEL, ANN PETRE	Lake Forest
GOBLE, GARY E.	Trenton
GOFF, RICHARD ROY	Charleston
COWER, JOSEPH ROBERT	Olney
GRIGGS, ANTHONY	North Chicago
HAHN, PATRICIA BETH	Markham
HANKS, NANCY LOUISE OEHLER	Bethalto
HARDWAY, LINDA JUNE	Sullivan
HARPSTER, MARY A. CAMPBELL	Charleston
HARRIS, SUSAN MARIE	Charleston
HEATH, CAROLINE STEWART	Hume
HEFFLEY, NOEL KENNETH	Gibson City
HEIDEN, GLORIA ELAINE	Shumway
HEINRICH, STEPHEN ARTHUR	Chicago
HENRY, JAMES FREDERICK	Greenup
HENRY, MICHAEL L.	Oblong
HIGHSMITH, MARGARET ANN	Gainesville, Florida
HILL, JOAN	Oblong
HOLZHAUER, ELIZABETH GRACE NIBECK	Rantoul
HOTTENSTEIN, CATHY SUE LUNN	Arthur
HOUSEMAN, PEGGY JEAN	Morrison
HUFF, SUSAN ZAY	Decatur
HUGHES, FAYE JEANNE HARDIN	Hindsboro
HUTTES, WINFIELD ROGER	Tower Hill
JARAND, ROGER LEON	Charleston
JOHNSON, LARRY DALE	Charleston
JONES, BERTHA ELLEN	Paris
JONES, THOMAS STEPHEN	Robinson
KANE, KATHLEEN ELISE	Salem
KENT, FORREST A.	Bradley

KINCHELOE, CAROLYN ANN.....	Danville
KITSON, DONNA B.....	Bement
KLAUSER, KATHRYN KAY.....	Shelbyville
KNECHT, CHARLES PHILLIP.....	Nokomis
KOCHER, LINDA JEAN.....	West Liberty
KOMPIK, BRENDA JOYCE.....	Mt. Zion
KRUGER, JOHNNIE EUGENE.....	Effingham
KYLANDER, ELLEN CHILDS.....	Tuscola
LASHLEY, JEANNE.....	Marion
LEGG, RONALD OTIS.....	Robinson
LINK, CONNIE JANE.....	Charleston
LLOYD, DENNIS DEAN.....	Greenville
LOCKWOOD, MADELINE MALOY.....	Olney
LOSS, JAMES NORMAN.....	Cisne
MACK, LENORE SUE.....	Hinckley
MAGRUDER, JACK GLENN.....	Oakland
MAIER, BARBARA A.....	Crossville
MARTIN, MARY KATHLEEN.....	Sullivan
MARTIN, PATRICIA ANN.....	Charleston
MAXEDON, MARCIA KAY SCHUYLER.....	Windsor
McALISTER, KAREN LYNN.....	Joliet
McCAIN, JOSEPH LEE.....	Bethany
McCLEARY, GARY EDWARD.....	Noble
McDAVID, PATTY SUE.....	Decatur
McHENRY, PATRICIA WRIGHT.....	Paris
MECUM, GLENDA JOYCE GRAY.....	Charleston
MESNARD, EARL GLENN.....	Effingham
MIEURE, CAROLE I.....	Robinson
MILBURN, LEAH ANN.....	Charleston
MILLER, CHERYL KAY.....	Decatur
MINER, PAMELA ANN.....	Ridgway
MORTON, LYNN ANN.....	Litchfield
MOSS, PEGGY ANN.....	Charleston
NASH, JUDY ANNE.....	Blue Island
NAY, DONNA L.....	Evanston
NEVINS, WILLIAM CHARLES.....	Charleston
NEWLIN, GREGORY MORGAN.....	Hutsonville
NIEMAN, LUCILLE.....	Effingham
OBERMOELLER, LEETA W.....	East St. Louis
PALMER, JANIS LEE.....	Findlay
PALMER, MARTHA LARETA.....	Sumner
PANKEY, DON WAYNE.....	Charleston
PARKER, GARY LEE.....	Charleston
PARKER, LINDA SUE WHELAN.....	Danville
PETERSON, MARJORIE DALE.....	Chicago
PFISTER, JOHN WALTER.....	Carmi
PICKENS, MARIE ELENORA.....	Dieterich
PINE, WILLIAM WAYNE.....	Marshall
PING, JANE ANN.....	Neoga
POLLOCK, GEORGE STEVEN.....	Summit
PORTER, DONALD W.....	Murphysboro
POTTS, LINDA KAY.....	Bridgeport
PROBST, JAMES H.....	Effingham
QUEEN, LINDA CAROL.....	Decatur
RACKHAUS, MARY WILHELMENIA.....	Marshall
RAMERT, MARTHA ANN.....	Neoga
RAYHILL, STEPHEN ROBERT.....	Pana
REETZ, DIANA LEE.....	Addison
REZABEK, ROGER JOSEPH.....	Edwardsville
RICHART, TECHLA ANN.....	Robinson
RIEGL, MICHAEL BYRON.....	Clinton
ROBERTS, JR., ALMOND LEE.....	Champaign
ROGERS, MICHAEL LARUE.....	Lawrenceville
RYTERSKI, LARRY THOMAS.....	Nashville

SAMPSON, DAVID RAYMOND	Sullivan
SCHAFFENACKER, CAROL J.	Mt. Pulaski
SCHATZ, THOMAS WILLIAM	Carpentersville
SCHERER, JEAN ELLEN	Olney
SEMETIS, JAMES RUSSELL	Orland Park
SERAFINI, MARTHA JEAN	Columbia
SHEARER, BARBARA JO	Newman
SHOUP, MARY ANN	Virden
SHUFF, JAMES ARTHUR	Charleston
SHUTE, MARTHA ANN	Bridgeport
SLUDER, LARRY EDWARD	Cahokia
SMITH, GERMINA S.	Charleston
SMITH, TERRY GENE	Sullivan
SMITH, VICKY RAE	Decatur
SNYDER, SHIRLEY HOPE	Carlinville
SPEIR, LAWRENCE EARL	Albion
SPENCER, WILBUR LEE	Waverly
SPERRY, WARREN LAURENCE	Vandalia
SPIVEY, EDWARD M.	Hutsonville
SPOON, JOE WES	Charleston
STEELE, MARY ELIZABETH	Bellwood
STEVENS, CYNTHIA JO BRANCH	Rockford
SWIFT, CATHERINE A.	Waterman
TATE, PATRICIA ANN	Fairfield
TATERKA, PATRICIA AUDREY	Villa Park
TAYLOR, THERESE CHARLENE JOHNSON	Charleston
TINGLEY, ROBERT EUGENE	Hutsonville
TURNER, JAMES RAY	Charleston
VANLOGHEM, MARY ELLEN	Berkeley
VOGELER, ANITA GRACE	Hazel Crest
VONDERHEIDE, MARY ELAINE WEIS	Effingham
WALKER, BARBARA LOUISE	Lovington
WALTERS, JEANIE MARIE RUTHERFORD	Bethany
WATKINS, LINDA SUE	Findlay
WELCH, MARLENE ESTHER CLARK	Champaign
WESTALL, RITA RAE MURPHY	St. Francisville
WHITCHER, VICKI NEWSOME	Robinson
WILKOSZ, LINDA SUSAN	New Lenox
WILLIAMS, ALLEN LEE	Flora
WILLIAMS, PATRICIA AILEEN	Farina
WILLIAMS, JR., ROBERT JOSEPH	Arcola
WILLIAMSON, ETHEL MAYE	Sullivan
WILLMORE, MARILYN DIANE	Decatur
WILSON, BRENT LEE	Shelbyville
WINES, JANET LOUISE GREGG	Shelbyville
WOLFF, GALE ARLEIGH	Lombard
WRIGHT, MARY ELLEN ORNDORFF	Paris
YINGST, KAREN ELAINE	Newton
YATES, CARL LANCE	Collinsville
YOUNG, JAMES ARNOLD	Macon

Men: 82

Women: 123

Total: 205

BACHELOR OF SCIENCE

ATOR, HEATHER ANNE	Quincy
BELCHER, JAMES MICHAEL	Creve Coeur
DALEY, J. MICHAEL	Mattoon
DAVIS, JACK DAVID	Decatur
EHRET, MARY ELLEN	Belleville
FULLER, BARBARA LOU JACKSON	Champaign
GARD, RICHARD KARL	Casey
HAHN, PAUL JOSEPH	Olney
HECKEL, JON MARK	St. Anne

HENRICHS, HOWARD ORVAL.....	Danforth
HOOVER, JEANINE E.	Granite City
HUNT, PAUL B.	Washington
JENKINS, ROSE CAROL.....	Springfield
KOEBERLEIN, DONNA KAY.....	Pesotum
LUCHTEFELD, PAUL HENRY.....	Effingham
MAST, FREEMAN R.	Charleston
MAZZA, MARY ANN LEONARD.....	Park Forest
NARAGHI, MAHMOUD NEZAMI.....	Teheran, Iran
PARSON, III., CHARLES EDWARD.....	Marshall
ROBINSON, COLIN CHARLES.....	Charleston
RODERICK, THOMAS NELS.....	Lansing
SIDDENS, DAVID PAUL.....	Milford
SMITH, STEPHANIE JO.....	Wilmington
SPRINO, PHILLIP JAMES.....	Mattoon
TREITLER, MARY ANN CARTY.....	Park Forest
WILLS, TERRY.....	Chicago

Men: 16

Women: 10

Total: 26

BACHELOR OF SCIENCE IN BUSINESS

BEHRENS, ALAN DAVID.....	Mt. Morris
BOUSLOG, LAWRENCE CHARLES.....	Charleston
BRYANT, FRED L.	Charleston
BYRON, GLENWORTH A.	St. Croix, Virgin Islands
CHAPMAN, ROGER EUGENE.....	Warrensburg
CHIPMAN, WILLIAM EDWARD.....	Kankakee
COOK, GARY RUSSELL.....	Dupo
DABBS, BILLY RAY.....	Aurora
DAVID, JAMES K.	Morton
DEVORE, LYNN DURELL.....	Charleston
DUNKEL, DANIEL JOSEPH.....	Mt. Carmel
ELDER, OLIVER DAVID.....	Sullivan
ELLIS, JACK.....	Charleston
FARR, JR., JOHN WILLIAM.....	Arlington Heights
FATHEREE, JOHNNY D.	Xenia
FLESCH, FRED GEORGE.....	Clarendon Hills
FREEBERG, EVERETT ROY.....	Princeton
FULLER, DONALD B.	Charleston
GRAY, JEFFREY EUGENE.....	Bridgeport
HAGEDORN, DAVID LEE.....	Grayville
HARTMAN, L. DOUGLAS.....	Peoria
HILLARY, DENNIS PAUL.....	Kankakee
HUSSEMAN, EDWIN CLARENCE.....	Gridley
JENNINGS, NEWELL DANIEL.....	Sycamore
MASH, TIMOTHY DOUGLAS.....	Danville
McKENNA, JOHN LAWRENCE.....	Champaign
MILLS, DAVID VANCE.....	Tuscola
MITCHELL, JR., ALBERT LEE.....	Mattoon
NASHLAND, JAMES C.	Rosiclare
NUGENT, DENNIS JOHN.....	Midlothian
ORTEGREN, ALAN KENT.....	Vandalia
POLAND, GARY E.	Effingham
POLAND, ROBERT EUGENE.....	Effingham
PULLEY, SHERIDAN L.	Taylorville
SEELY, DONALD WAYNE.....	Paris
SLIFE, JAMES ROBERT.....	Maywood
SMALL, WILLIAM BRODERICK.....	Gilman
STEPHENSON, ROBERT ALLEN.....	Taylorville
STEWART, DENNIS EVERETT.....	Tuscola
STEWART, MARTHA MAE.....	Galatia
STINSON, THOMAS MICHAEL.....	Eldorado
THOMPSON, GARY LEON.....	Chrisman

TRIMBLE, MELVIN KENT.....	Champaign
WILLENBORG, PAUL VINCENT.....	Effingham
WOJCIK, JAMES JOSEPH.....	Chicago

Men: 43 Women: 2 Total: 45

BACHELOR OF ARTS

GENOTTE, VICTOR L.....	Bradley
KLEEN, ALBERT ANDREW.....	Chicago
MALQUIST, RAYMOND C.....	Oak Lawn
McDONALD, MICHAEL JOSEPH.....	Danville
SLOAN, NORMAN CHARLES.....	Annapolis
VOORHEES, KILBURN V.....	Mt. Prospect
WILKINSON, TERRY LYNN.....	Mt. Prospect

Men: 6 Women: 1 Total: 7

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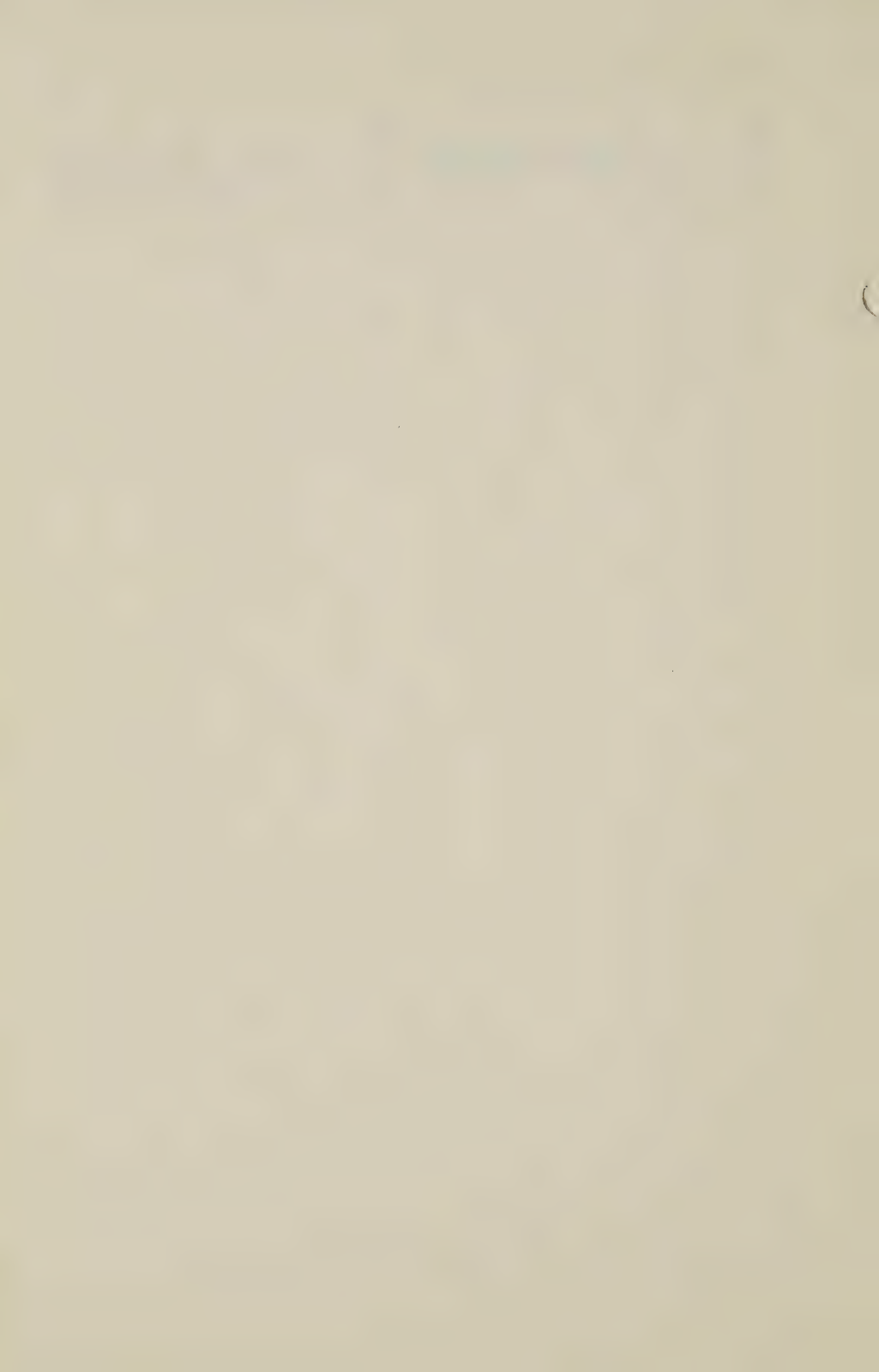
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